

JVC

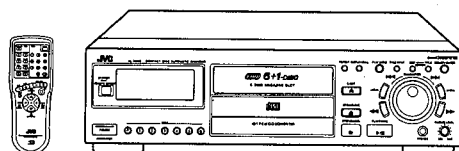
SERVICE MANUAL

COMPACT DISC AUTOMATIC CHANGER

XL-M5SD XL-M417TN XL-M317TN

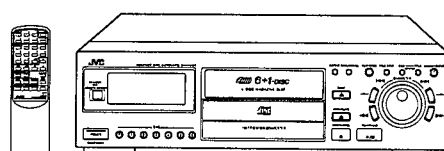
COMPACT
disc
DIGITAL AUDIO

XL-M5SD



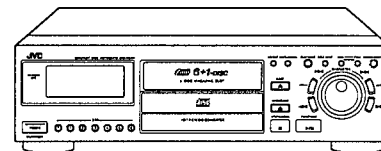
COMPU LINK
Remote
Control Component

XL-M417TN



COMPU LINK
Remote
Control Component

XL-M317TN



COMPU LINK
Component

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Safety Precautions

1. The design of this product contains special hardware and many circuits and components specially for safety purposes. For continued protection, no changes should be made to the original design unless authorized in writing by the manufacturer. Replacement parts must be identical to those used in the original circuits. Services should be performed by qualified personnel only.
2. Alterations of the design or circuitry of the product should not be made. Any design alterations of the product should not be made. Any design alterations or additions will void the manufacturer's warranty and will further relieve the manufacture of responsibility for personal injury or property damage resulting therefrom.
3. Many electrical and mechanical parts in the products have special safety-related characteristics. These characteristics are often not evident from visual inspection nor can the protection afforded by them necessarily be obtained by using replacement components rated for higher voltage, wattage, etc. Replacement parts which have these special safety characteristics are identified in the Parts List of Service Manual. Electrical components having such features are identified by shading on the schematics and by (Δ) on the Parts List in the Service Manual. The use of a substitute replacement which does not have the same safety characteristics as the recommended replacement parts shown in the Parts List of Service Manual may create shock, fire, or other hazards.
4. The leads in the products are routed and dressed with ties, clamps, tubings, barriers and the like to be separated from live parts, high temperature parts, moving parts and/or sharp edges for the prevention of electric shock and fire hazard. When service is required, the original lead routing and dress should be observed, and it should be confirmed that they have been returned to normal, after re-assembling.
5. Leakage current check (Electrical shock hazard testing)
After re-assembling the product, always perform an isolation check on the exposed metal parts of the product (antenna terminals, knobs, metal cabinet, screw heads, headphone jack, control shafts, etc.) to be sure the product is safe to operate without danger of electrical shock.
Do not use a line isolation transformer during this check.
 - Plug the AC line cord directly into the AC outlet. Using a "Leakage Current Tester", measure the leakage current from each exposed metal parts of the cabinet, particularly any exposed metal part having a return path to the chassis, to a known good earth ground. Any leakage current must not exceed 0.5mA AC (r.m.s.).
 - Alternate check method
Plug the AC line cord directly into the AC outlet. Use an AC voltmeter having, 1,000 ohms per volt or more sensitivity in the following manner. Connect a 1,500 Ω 10 W resistor paralleled by a 0.15 μ F AC-type capacitor between an exposed metal part and a known good earth ground.
Measure the AC voltage across the resistor with the AC voltmeter.
Move the resistor connection to each exposed metal part, particularly any exposed metal part having a return path to the chassis, and measure the AC voltage across the resistor.
Now, reverse the plug in the AC outlet and repeat each measurement. Any voltage measured must not exceed 0.75 V AC (r.m.s.).
This corresponds to 0.5 mA AC (r.m.s.).

Warning

1. This equipment has been designed and manufactured to meet international safety standards.
2. It is the legal responsibility of the repairer to ensure that these safety standards are maintained.
3. Repairs must be made in accordance with the relevant safety standards.
4. It is essential that safety critical components are replaced by approved parts.
5. If mains voltage selector is provided, check setting for local voltage.

Important for Laser Products

1. **CLASS 1 LASER PRODUCT**
2. **DANGER** : Invisible laser radiation when open and interlock failed or defeated. Avoid direct exposure to beam.
3. **CAUTION** : There are no serviceable parts inside the Laser Unit. Do not disassemble the Laser Unit. Replace the complete Laser Unit if it malfunctions.
4. **CAUTION** : The compact disc player uses invisible laser radiation and is equipped with safety switches which prevent emission of radiation when the drawer is open and the safety interlocks have failed or are defeated. It is dangerous to defeat the safety switches.
5. **CAUTION** : If safety switches malfunction, the laser is able to function.
6. **CAUTION** : Use of controls, adjustments or performance of procedures other than those specified herein may result in hazardous radiation exposure.

VARNING : Osynlig laserstrålning när denna del är öppnad och spärren är urkopplad. Betrakta ej strålen.

VARO : Avattaessa ja suojalukitus ohitettaessa olet alttiina näkymättömälle lasersäteilylle. Älä katso säteeseen.

ADVARSEL : Usynlig laserstrålning ved åbning, når sikkerhedsafbrydere er ude af funktion. Undgå udsættelse for stråling.

ADVARSEL : Usynlig laserstrålning ved åpning, når sikkerhetsbryteren er avslott. unngå utsettelse for stråling.

REPRODUCTION AND POSITION OF LABELS

WARNING LABEL

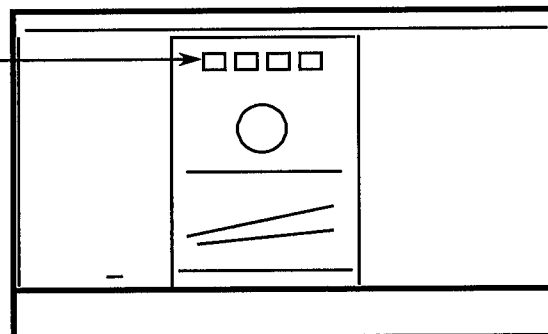
(Except for the U. S. A.)

DANGER: invisible laser radiation when open and interlock failed or defeated. AVOID DIRECT EXPOSURE TO BEAM. (e)

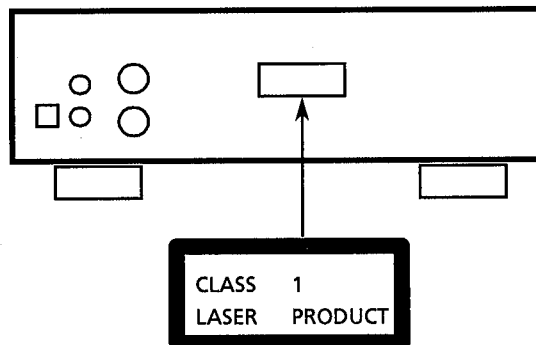
VARNING: Osynlig laserstrålning när denna del är öppnad och spärren är urkopplad. Betrakta ej strålen. (s)

ADVARSEL: Usynlig laserstrålning ved åbning, når sikkerhedsafbrydere er ude af funktion. Undgå udsættelse for stråling. (d)

VARO: Avattaessa ja suojalukitus ohitettaessa olet alttiina näkymättömälle lasersäteilylle. Älä katso säteeseen. (f)



XL-M55D
XL-M417TN
XL-M417TN



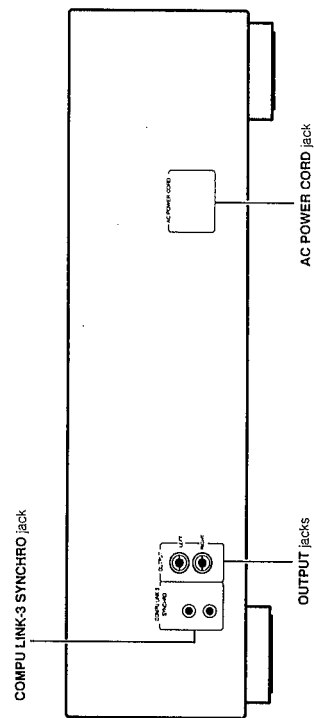
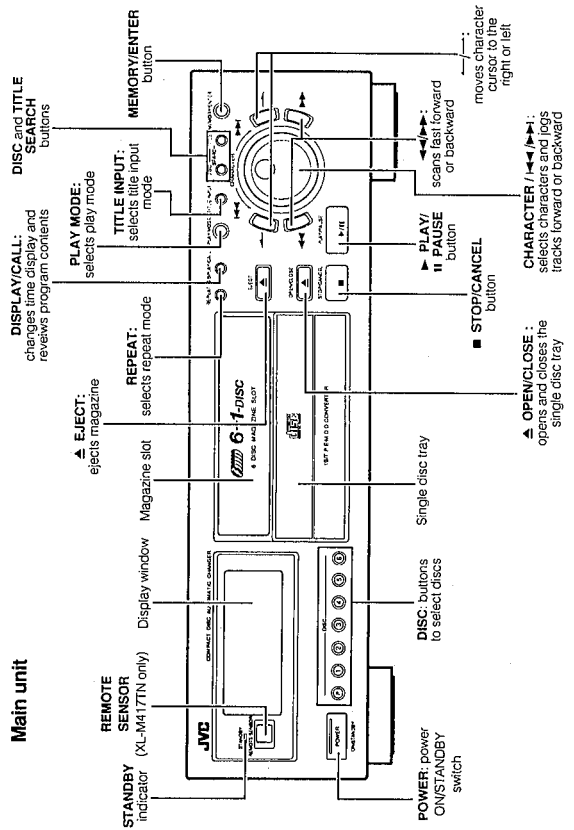
CLASS 1
LASER PRODUCT

CLASSIFICATION LABEL

(Except for the U. S. A. and Canada)

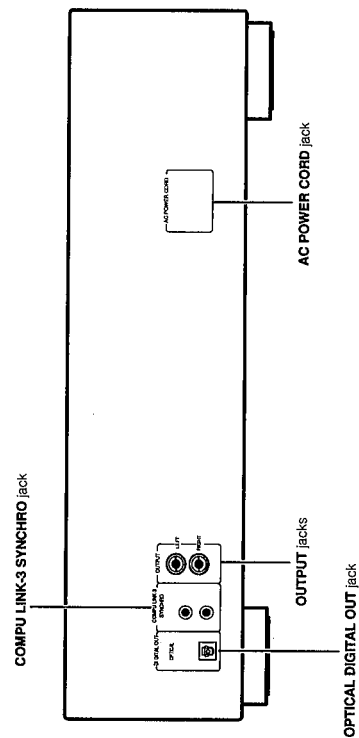
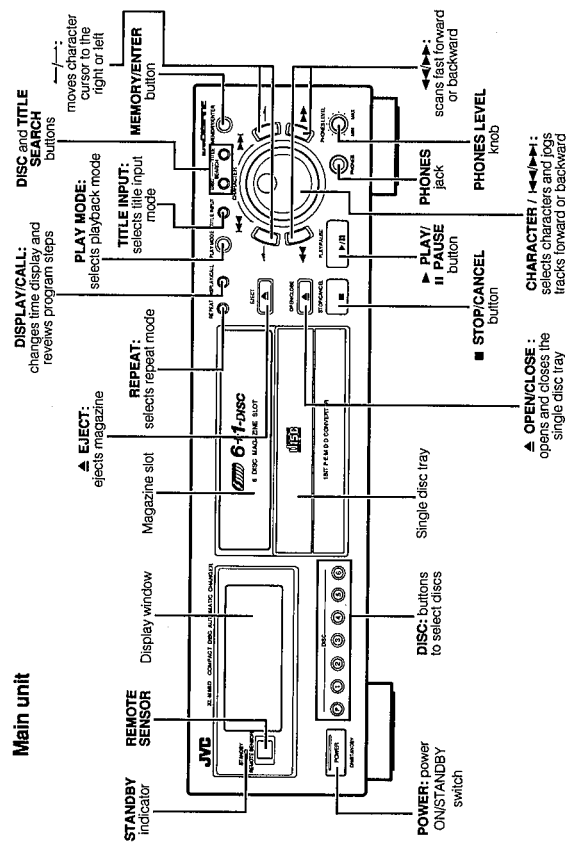
INTRODUCTION
XL-M417TN
XL-M317TN

Names of buttons



INTRODUCTION
XL-M5SD

Names of buttons



XL-M5SD

Diagram of the JVC remote control with numbered callouts:

- 1: POWER button
- 2: TRACK button
- 3: EJECT button
- 4: STOP button
- 5: PAUSE button
- 6: FASTER button
- 7: SLOWER button
- 8: TITLE button
- 9: REWIND button
- 10: STILL button
- 11: STILL button
- 12: STILL button
- 13: STILL button
- 14: STILL button
- 15: STILL button
- 16: STILL button
- 17: STILL button
- 18: STILL button
- 19: STILL button
- 20: STILL button

The following numbers correspond to the buttons on the remote control. Hold down the **SHIFT** button **10** while pressing the respective button to operate functions enclosed in brackets (i.e., "[CALL]"). These functions are printed in green letters on the remote control.

- ①** Remote control signal transmitter.
- ②** **TRACK:** Buttons to select track numbers.
- ③** **POWER:** Power (ON/STANDBY) button
- ④** **DISC SKIP:** Disc skip button.
- ⑤** II: Pause button.
- ⑥** ■: Play button.
- ⑦** **[TITLE DISC NEXT]:** Chooses the next disc in title search mode.
- ⑧** **[▶▶▶ TRACK SKIP NEXT BUTTON.]**: Track skip next button.
- ⑨** **[TITLE MAG NEXT]:** Chooses the next magazine in title search mode.
- Ⓜ** ■: Stop button.
- ⑩** **[TITLE DISC BEFORE]:** Chooses the previous disc in title search mode.
- ⑪** **[TITLE MAG BEFORE]:** Chooses the previous magazine in title search mode.
- ⑫** **◀◀◀ TRACK SKIP BEFORE BUTTON.**
- ⑬** **SHIFT:** hold down this button while pressing a button to operate the functions printed in green letters. Functions operated while pressing SHIFT are enclosed in brackets (i.e., "[CALL]").
- ⑭** ◀◀◀ scans fast forward or backward.
- ⑮** ▲ **OPEN/CLOSE:** Opens and closes the single disc tray.
- ⑯** **MEJECT:** Ejects magazine.
- ⑰** **DISC 6:** Selects disc number 6.
- ⑱** **[REPEAT]:** Selects repeat mode.
- ⑲** **DISC 5:** Selects disc number 5.
- ⑳** **[CALL]:** Reviews program steps in program mode.
- ** **DISC 4:** Selects disc number 4.
- ㉑** **[CANCEL]:** Cancels program steps and disc titles.
- ㉒** **DISC 3:** Selects disc number 3.
- ㉓** **[INTRO]:** Selects intro scan mode.
- ㉔** **DISC 2:** Selects disc number 2.
- ㉕** **[RANDOM]:** Selects random mode.
- ㉖** **DISC 1:** Selects disc number 1.
- ㉗** **[PROGRAM]:** Selects program mode.
- ㉘** **DISC P:** Use to select the single disc tray.
- ㉙** **[CONTINUE]:** Selects continue mode.

XL-M417TN
XL-M317TN

[illegible]

The following numbers correspond to the buttons on the remote control.

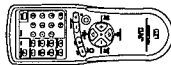
- 1** Remote control signal transmitter.
- 2** **POWER:** Turns ON/STANDBY button.
- 3** **TRACK:** Buttons to select track numbers.
- 4** ▶ Play button.
- 5** ◀ Pause button.
- 6** ■ Stop button.
- 7** **M.EJECT:** Ejects magazine.
- 8** **OPEN/CLOSE:** Opens and closes the single disc tray.
- 9** **REPEAT:** Selects repeat mode.
- 0** **RANDOM:** Selects random mode.
- 1** **INTRO:** Selects intro mode.
- 2** **PROGRAM:** Selects program mode.
- 3** **CONTINUE:** Selects continue mode.
- 4** **CANCEL:** Cancels program steps and disc titles.
- 5** **CALL:** Previews program contents in program menu.
- 6** **DISC NEXT:** Selects the next disc.
- 7** **DISC BEFORE:** Selects the previous disc.
◄▶◂◃►◅
- 8** **DISC:** Use to select discs by their disc number.

BEFORE USING FOR THE FIRST TIME

Installing the unit

Before you install the unit
Be sure all of the following accessories were included with your XL-M5SD:

Remote control unit (RM-SXM5SDU): 1



Batteries: 2
[R6(S/M-3)AA(1.5F) type]
For the remote control unit.



Audio cord: 1
To make connections to other audio components.



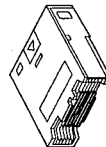
AC power cord: 1
For connecting the unit to a wall outlet in your home.



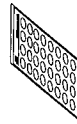
COMPU LINK cord: 1
To make connections to use other JVC COMPU LINK components.



Magazine (XC-M75): 1



Magazine Label: 1
Use these labels to organize your disc collection into magazines.



Best location

Select a location which is level, dry and neither too cold nor too hot (temperature range 5°C (41°F) to 35°C (95°F)). Also, avoid dusty locations or any location subject to vibration.

If interference occurs

Interference may occur, if this unit is placed near a tuner or a radio receiver tuned to an AM frequency. If this happens, we recommend that you either move the unit farther away from the tuner or radio receiver, or temporarily turn off the power to this unit.

Connecting to other equipment

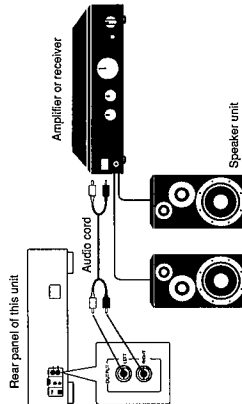
Connecting your XL-M5SD to an amplifier or receiver lets you listen to CDs through speakers. You can connect the CD player to an amplifier or receiver with either the analog OUTPUT jacks, or the OPTICAL DIGITAL OUT jack.

For analog connections

Connect the OUTPUT jacks on the rear of this unit to the CD or AUX input jacks on an amplifier or receiver with the supplied audio cord.

Notes

- Never connect this unit's OUTPUT jacks to an amplifier or receiver's PHONO jacks. It may damage the components.
- Make sure the same channels are connected between this unit and the amplifier or receiver: LEFT to LEFT and RIGHT to RIGHT.
- Do not connect the power plug until all other connections are complete.
- Connect the plugs firmly. Loose connections may cause noise or malfunction.

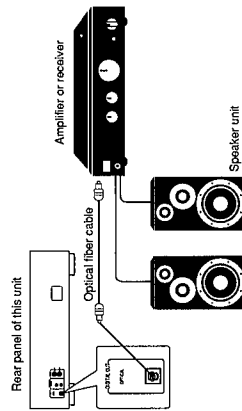


For digital connections

Connect the OPTICAL DIGITAL OUT jack on this unit to the OPTICAL DIGITAL INPUT jack on your amplifier or receiver with an optical fiber cable (optional).

Notes

- Be sure your amplifier or receiver has the same type of optical transmission/reception module.
- Remove the dust caps from the OPTICAL DIGITAL OUT and OPTICAL DIGITAL INPUT jacks before inserting the optical fiber cable.
- Be careful not to fold or crimp the cable. When coiling an optical fiber cable for storage, make sure that the diameter of the coil is at least 15 cm (6 inches).
- Use an optical fiber cable less than 3 m (9 feet) long.
- Protect the optical fiber cable plugs from scratches and dust.
- Keep the protective dust cap plugged into the optical digital output jack when not using an optical fiber cable to connect the unit.



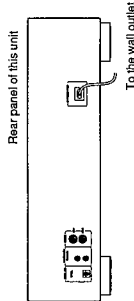
Supplying the power

Connecting the AC power cord

Connect the AC power cord to a wall outlet after completing all other connections.

Note

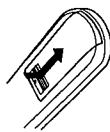
Do not connect this unit's power cord to the SWITCHED AC OUTLET on an amplifier or receiver when using the COMPU LINK Remote Control System.



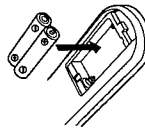
Installing the batteries in the remote control

Before operating the remote control, install two batteries.

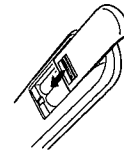
1. Remove the battery cover on the back of the remote by simultaneously pressing down and pulling it backwards.



2. Install the batteries. Be sure to install with the correct polarity, (+) and (-).



3. Slide the cover back into position.



Notes
Incorrect battery usage can cause corrosion and damage the remote. To prevent damage to the remote and extend battery life:

- Install batteries observing the correct polarity, (+) and (-).
- Do not use a combination of old and new batteries.
- Be sure to use the correct batteries (batteries with similar shapes may have different voltage ratings).
- Remove the batteries from the remote if it is not going to be used for a long time.
- Do not expose batteries to heat or flame.

Battery replacement

Battery service life varies depending on the conditions of use but standard life is about one year. When batteries become weak, the remote control's operating distance decreases. If this happens, replace the batteries with new ones. Use two (2) dry cell batteries of the R6P (SUM-3)/AA (15F) type.

Note
Extremely low temperatures may shorten battery life.

COMPU LINK connections

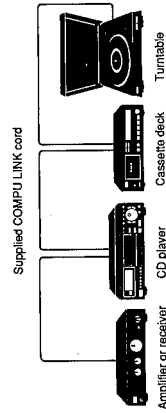
Connecting JVC audio components with the COMPU LINK jacks provides automatic control of relative operations between components and facilitates various operations. With a COMPU LINK connection to an amplifier or receiver, you can operate the XL-M5SD with the amplifier or receiver's remote control. Connecting to a tape deck lets you conduct synchronized recording.

Connecting the COMPU LINK cord

The COMPU LINK-3 SYNCHRO jacks are used to output and input the control signals for the COMPU LINK remote control system. COMPU LINK-compatible products are provided with the jacks marked COMPU LINK-1, COMPU LINK-2 or COMPU LINK-3, depending on the COMPU LINK version. The XL-M5SD is equipped with COMPU LINK-3. You can connect the XL-M5SD to components with previous versions of COMPU LINK, but only the previous versions' features will be available.

Plug the supplied COMPU LINK cord into the COMPU LINK-3 SYNCHRO jack on the rear of XL-M5SD. Plug the other end into the COMPU LINK jack of an amplifier or receiver. If the amplifier or receiver has two COMPU LINK jacks, you can use either one.

COMPU LINK system components connected with COMPU LINK

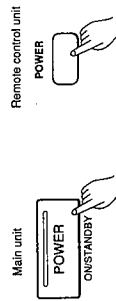


BASIC OPERATIONS

Preliminary operations

Turning on the power

Press the POWER button.



Press again to turn the unit off and activate standby mode.

The power turns on automatically when you:

- Insert a magazine.
- Press the ►/PLAY/PAUSE button on the main unit or the ► button on the remote.

Note

This unit consumes approximately 5 watts of power in standby mode. To turn the power completely off, disconnect the power cord from the wall outlet.

Loading the single disc tray

Use the ▲ OPEN/CLOSE button.



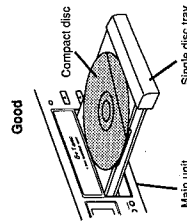
1. Press the ▲ OPEN/CLOSE button to open the single disc tray.
2. Place a disc flat in the grooved depression on the single disc tray with its label side facing up.
3. Press the ▲ OPEN/CLOSE button to close the single disc tray.

Note

When loading a disc on to the single disc tray, be sure to place the disc so that it lies flat in the grooved depression. Otherwise, the disc may be damaged or stuck in the unit when the tray is closed.

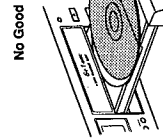
Remote control operation

Point the remote control towards the REMOTE SENSOR on the front of the main unit and operate steadily and carefully. The remote control unit can be used within a range of about 7 meters (23 feet) from the REMOTE SENSOR, and at angles of up to about 30 degrees.



Adjusting the headphones level

After connecting a pair of headphones to the PHONES jack, turn PHONES LEVEL knob to adjust volume level of the headphones.

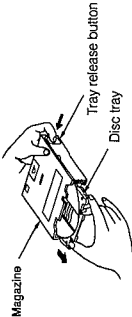


BASIC OPERATIONS

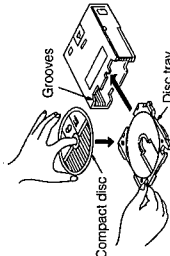
Loading the magazine

Use the magazine when you want to play 2 or more discs.

1. Slide the disc tray out of the magazine while pressing the tray release button.



2. Place a disc on the disc tray with its label side facing up. It's not possible to play discs inserted upside-down. Also, never place discs directly into the magazine without using a disc tray.



3. Line up the disc tray with the grooves in the magazine and push the tray back in. It's unnecessary to press the tray release button when inserting the disc trays.

Notes
Be careful of the following when handling the disc trays.

- Never bend the disc tray or force it into the magazine. A skewed disc tray may cause a malfunction.



- Hold the magazine horizontally when inserting or removing the disc trays.
- The openings on the disc trays are for passage of the laser signal. These openings leave part of the shiny surface on the bottom of the disc exposed, please be careful not to touch this surface.

Optional magazines

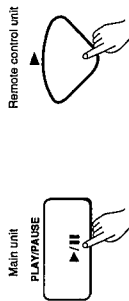
If you wish to use 8cm (3 inch) CDs, please obtain the special magazine (XC-M73) designed for these discs.
If you wish to use additional 12cm (5 inch) disc magazines, please obtain the special magazine (XC-M75) designed for this unit.

BASIC OPERATIONS

Basic functions for disc playback

Playing a disc

Press the ►/II button on the main unit or the ► button on the remote.

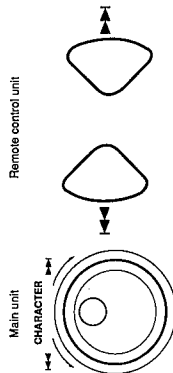


The ► indicator lights in the display and playback starts. If there are no discs loaded in the unit, the disc tray opens.

To stop playback temporarily, press the ►/II button on the main unit or the II button on the remote.
The II indicator lights in the display and playback stops temporarily. To resume playback, press the ►/II button on the main unit or the ► button on the remote.

Skipping to a desired track

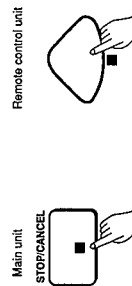
Use the CHARACTER dial.



To skip to the beginning of the current track being, turn the CHARACTER dial to the left (towards ◀). To skip to the beginning of previous tracks, continue turning the dial in the ◀ direction.
To skip to the beginning of following tracks, turn the CHARACTER dial to the right (towards ▶).
Turn the CHARACTER dial in the direction you want to advance until the track you desire appears in the display.

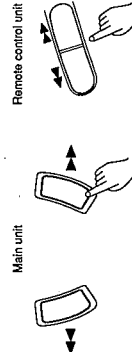
Stopping playback

Press the ■ STOP/CANCEL button on the main unit or the ■ button on the remote.



Searching for a desired section

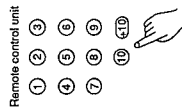
Hold down the ◀◀ or ▶▶ button during playback.



Playback advances or reverses rapidly. The ◀◀ buttons put playback into rapid reverse and the ▶▶ buttons put playback into rapid advance. Release the button when you reach the section you desire, and the player returns to normal playback.

Specifying a desired track

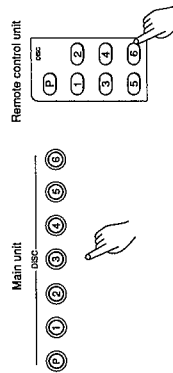
Use the TRACK number buttons (1-10, +10) on the remote control.



The unit searches for the selected track and playback starts automatically. When selecting track numbers 1 through 10, press the corresponding number button. When selecting a track number greater than 10, use the (+10) button. Example: To select track number 12, press (+10) and then [2]. To select track number 25, press (+10) twice and then [5]. To select track number 30, press (+10) twice and then [10].

Specifying a desired disc

Use the DISC buttons.



To start playback from the beginning of a specific disc, press the DISC button that corresponds to the disc you want to play.

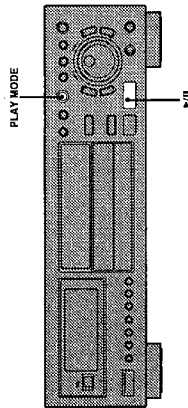
You can also use the DISC SKIP buttons on the remote control to choose discs. To start playback after choosing a disc with the DISC SKIP buttons, press the ► button.

Note
The unit remembers the last playback mode when in standby mode.

VARIOUS PLAYBACK PATTERNS

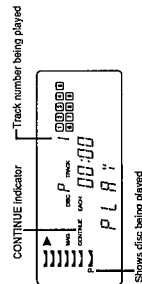
Playing tracks in continuous order

With the continue function, you can start playback from any track on any disc and play continuously through to the final track on disc number 6. When discs are inserted in both the single disc tray and the magazine, playback starts from the disc in the single disc tray.



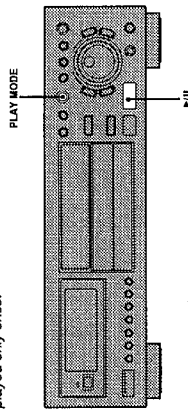
Press the PLAY MODE button to light the CONTINUE indicator. Then press the ► button.

Playback starts from the first disc in the magazine (if a disc is not loaded in the single disc tray) or the disc loaded in the single disc tray. If the single disc tray is left open, pressing the ► button closes the tray before starting playback. The following display appears.



Playing tracks in a random order

With the random playback function, the unit plays tracks at random from among all the discs loaded in the unit. Each track is played only once.



1. In stop mode, press the PLAY MODE button to light the RANDOM indicator.

2. Press the ► button to start playback.

- To skip to the next track to be played, turn the CHARACTER dial clockwise (towards ►).
- To play all tracks repeatedly in random order, press the REPEAT button so that the REPEAT indicator lights in the display.

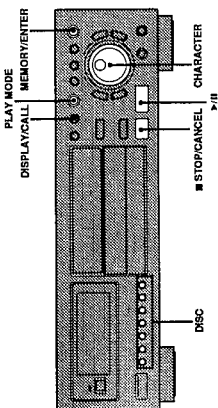
To cancel random playback

Press the PLAY MODE button to select another playback mode. The RANDOM indicator goes out and the unit enters the selected play mode.

VARIOUS PLAYBACK PATTERNS

Playing tracks in a desired order

With the program function, you can play tracks from discs in the magazine and single disc tray in the order you desire.

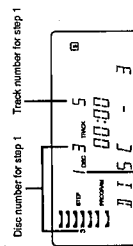


1. In stop mode, press the PLAY MODE button to light the PROGRAM indicator.

2. Use the DISC buttons to select the disc containing the track you want to program.
"AL" (all tracks) appears in the display.

3. Rotate the CHARACTER dial to display the track number you desire.
Skip step 3 below. All tracks on the selected disc are programmed if the track number is not specified.

4. Press the MEMORY/ENTER button to store the selected track number in the program memory.
The selected track number is programmed and the following display appears.



5. You can select the desired track number with the TRACK buttons on the remote control unit. Press the TRACK buttons on the remote control. It is not necessary to press the MEMORY/ENTER button after selecting the track number.

6. If you want to cancel the step being displayed, press the STOP/CANCEL button (or the CANCEL button on the remote) and enter a new track number.

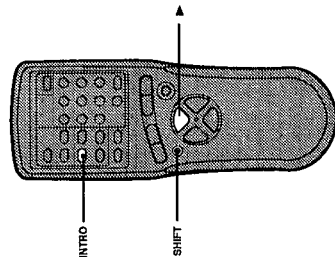
7. Repeat steps 2, 3, and 4 to program additional tracks or discs. You can program up to 32 steps.

8. Press the ▶ button to start playback.
The programmed tracks playback in the programmed order.

9. You can skip to another program step during playback by turning the CHARACTER dial.

Playing just the beginning of each disc or track

With the intro scan function, you can easily find the disc, or track, you desire.



In stop mode, hold down the SHIFT button and press the INTRO button on the remote to light either the DISC INTRO or INTRO indicator, then press the ▶ button.

When you select DISC INTRO, the unit plays the first 15 seconds of the first track on each disc, starting from the disc in the single disc tray and continuing through to disc number 6 in the magazine.

When you select INTRO, the unit plays the first 15 seconds of each track on all the discs loaded in the unit, starting from the first track of the disc in the single disc tray and continuing through to the last track on disc number 6 in the magazine.

To cancel the intro scan when you reach the track you desire

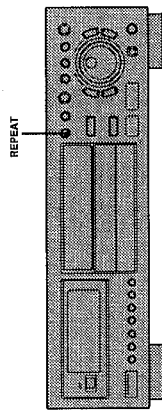
Press either ▶ or ◀, the intro scan mode is cancelled and the unit resumes normal playback.

The following operations will also cancel the intro scan mode:

- Pressing the PLAY MODE button to change the playback mode.
- Pressing one of the DISC buttons on the main unit or the remote.
- Pressing one of the TRACK buttons on the remote.

Playing repeatedly

With the repeat function, you can play all the discs, or just one track repeatedly. You can also use the repeat function together with the random playback and program functions.



Press the REPEAT button on the main unit, or hold down the SHIFT button and press REPEAT on the remote control, so that either the REPEAT or REPEAT 1 indicator lights in the display.

When the REPEAT indicator is lit, all tracks are played back repeatedly. When the REPEAT 1 indicator is lit, the current track is played back repeatedly.

To cancel repeat mode

Press the REPEAT button on the main unit or hold down the SHIFT button and press REPEAT on the remote control to turn off the REPEAT or REPEAT 1 indicator.

Can you remember which discs you stored in which magazines? If you have more than one magazine you probably store your discs in them, and you may find it difficult to locate the discs you want to playback. This unit is provided with a magazine memory function to help you keep track of which discs are loaded in up to 32 different magazines.

Once the disc titles are stored, you can easily find out which discs are stored in which magazines.

When using the magazine memory function

Attach a supplied label (letters A-Z and numbers 1-6) to each magazine after entering the disc titles into the unit's memory. Be sure the label you attach matches the magazine identification symbol shown in the display after inserting the respective magazine.

Disc title input

Enter the magazine identification symbol (A-Z or 1-6), the disc tray number (1-6), and corresponding disc titles.

Disc search

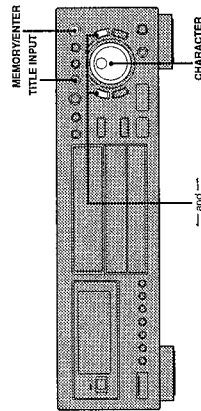
You can easily locate the magazine and disc numbers of the stored discs by specifying one or more letters of the disc title. You can choose to specify as much of the disc title as you desire, starting from the first letter in the title.

Title search

You can also display the disc title of any disc stored in the disc title memory by specifying the magazine identification symbol and disc tray number.

Inputting a disc title

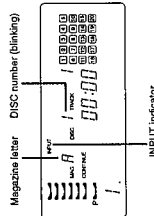
With the disc title input, you can use the memory to store disc titles. After inputting a disc title, it appears in the display automatically whenever you choose that disc.



Title input is only available in the continue mode. Insert a disc magazine and press the ■ STOP/CANCEL button before you start to input a disc title.

1. Press the TITLE INPUT button.

The unit automatically gives the magazine a letter (starting with 'A') and the disc number blinks in the display.



2. Use the CHARACTER dial to select the number of the disc you want to title.

3. Press MEMORY/ENTER.

The cursor blinks in the display.

4. Use the CHARACTER dial to select a character, and push the — and — buttons to move the cursor to the place you want to input the next character.

Repeating this, you can enter up to 8 characters for each disc title.

5. Press MEMORY/ENTER to store the disc title.

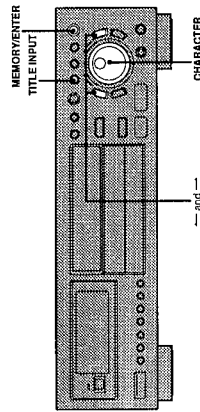
The unit automatically advances to the next disc in the magazine. Repeat steps 4 and 5 to enter titles for all 6 discs and the unit exits the title input mode automatically.

To exit the title input mode before entering a title

Press the TITLE INPUT button. You can also exit the title input mode by pressing the ► or PLAY MODE button.

Modifying a disc title

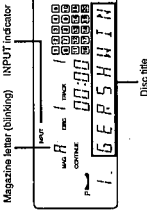
You can easily modify or change disc titles stored in the unit's memory.



Title modification is only available in the continue mode. Eject the magazine and stop playback before you start to modify a disc title.

1. Press the TITLE INPUT button.

A magazine letter blinks in the display. If a title has been stored for disc 1 of that magazine, it also appears in the display.



2. Rotate the CHARACTER dial to display the letter of the magazine containing the disc whose title you want to change.

3. Press the MEMORY/ENTER button.

The disc number blinks in the display.

4. Rotate the CHARACTER dial to display the number of the disc whose title you want to change.

5. Press the MEMORY/ENTER button.

6. Use the CHARACTER dial to select a character, and push the — and — buttons to move the cursor to the place you want to input the next character.

Repeating this, you can enter up to 8 characters for each disc title. To erase the previously entered title, press the ■ STOP/CANCEL button and repeat steps 4 and 5.

7. Press the MEMORY/ENTER button to store the disc title.

The unit automatically advances to the next disc. Repeat steps 6 and 7 for each title you want to change.

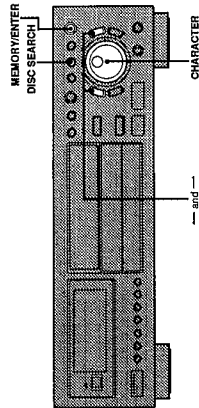
To exit the disc title mode.

Press the TITLE INPUT button.

MAGAZINE MEMORY FUNCTION

Locating a disc by entering the disc title

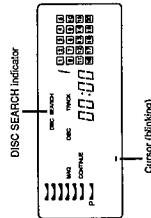
Use disc search to find discs by entering all or just part of the disc title.



Disc search is only available in the continue mode.

1. Press the **DISC SEARCH** button.

The cursor blinks in the character display.



2. Use the **CHARACTER** dial and the **—** and **—** buttons to enter either the disc title or the first few characters of the title.

Place the cursor on the last character you entered. If the cursor is placed on the space after the last character, the space is also recognized as a character. If you place the cursor on a character in the middle, the unit searches for the disc title by reading only from the first character to the cursor position. The remaining characters will not be read.

3. Press the **MEMORY/ENTER** button

The unit searches for a matching disc title and displays it along with the magazine and disc numbers. Use the **CHARACTER** dial to advance or reverse through the disc titles if there are multiple references.

To exit the disc search mode

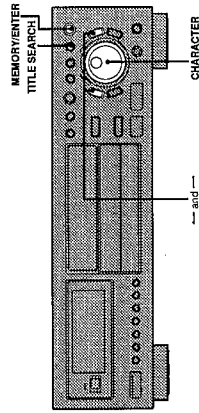
Press the **DISC SEARCH** button.

Note

The unit returns to the continue mode if you wait longer than 10 second before inputting the disc title information.

Locating a title by entering the disc number

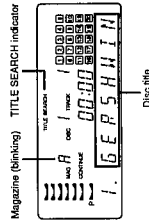
Use the title search to recall the title of a disc in a specific magazine.



Title search is only available in the continue mode.

1. Press the **TITLE SEARCH** button.

'A' blinks in the display.
(The title for magazine 'A' disc number 1 also appears.)



2. Rotate the **CHARACTER** dial so that the magazine you desire appears in the display.

The disc number starts to blink in the display.

3. Press the **MEMORY/ENTER** button

The disc number appears in the display for about 10 seconds.

You can enter the title input mode by pressing the **TITLE INPUT** button.

Advancing past the last disc in a given magazine continues to the first track in the next magazine. Likewise, reversing past the first disc in a given magazine continues to the last disc in the previous magazine.

EXAMPLE: magazine D disc 6 → magazine E disc 1
magazine D disc 1 → Magazine C disc 6

To exit the title search mode

Press the **TITLE SEARCH** button.

To search the title with the remote control

Press the **TITLE SEARCH** button on the main unit, then hold down the **SHIFT** button and use the **TITLE DISC NEXT**, **TITLE DISC BEFORE**, **TITLE MAG. NEXT**, and **TITLE MAG. BEFORE** buttons on the remote control to find the title you desire.

Note

The unit returns to the continue mode if you wait longer than 10 second before inputting the magazine or disc information.

GENERAL INFORMATION

The COMPU LINK remote control system

The COMPU LINK Remote Control System controls relative operations between components automatically and facilitates various operations.



This is a system originated and developed by JVC for facilitating various system operations.
The following is a brief explanation of this system:

Automatic source selection
When you use the provided COMPU LINK cord to connect this unit to other JVC products equipped with COMPU LINK jacks, you can switch system components with a touch of a button. One touch of the source selector button on a JVC amplifier or receiver starts operation of the selected component automatically. Likewise, when you press the play button on one of the system components, the source selector on the amplifier or receiver changes automatically and the previously selected component stops operation within five seconds.

Synchronized recording

Synchronized recording refers to the process in which a JVC cassette deck starts recording, synchronized with this unit. Synchronized recording is carried out as follows:

1. Set the cassette deck to the recording pause mode in accordance with its instructions.
2. To record only certain tracks, make a program of the tracks you desire.
3. Press the **PAUSE** button on the front panel of this unit. The cassette deck automatically starts recording, synchronized with this unit.

Notes

- Synchronized recording stops automatically when this unit stops playback.
- To cancel synchronized recording, press the **STOP** button on this unit or on the cassette deck.
- Setting the recording pause mode by pressing the **PAUSE** button after pressing the **REC** and **PLAY** buttons simultaneously, synchronized recording will not be possible. For details, refer to the instructions for the cassette deck.

Automatic power on/off function

This function controls the power of the receiver or amplifier or the power of this unit in the following manner.

- When this unit enters playback mode, the receiver or amplifier turns on automatically.
- When the source selector of the receiver or amplifier is set to the CD function mode, this unit turns on automatically.

Notes

- Abnormal operation will result if the power supply of the component(s) is interrupted. If this happens, you must start over again.
- Be sure that the COMPU LINK jacks of the individual components are connected with the provided COMPU LINK cord. Also, be sure to fully read the instructions for each component.

Care and handling

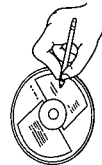
How to handle CDs

When handling compact discs, do not touch the bottom (reflective silver side - the side without the label) of the disc. Since compact discs are made of plastic, they are easily damaged. If the disc gets dirty, dusty, scratched or warped, the sound will not be picked up correctly and, may cause the CD player to malfunction.



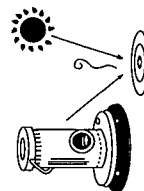
Even on the label side

Do not damage the label side, stick paper to or use adhesive on this surface.



Storage

Make sure to keep discs in their cases. If discs are piled one on top of another without their protective cases, they can be damaged. Do not put discs in a location where they will be exposed to direct sunlight - or in any place with high temperature or humidity. Avoid leaving discs in your car!



Maintenance of discs

- When there are fingerprints or other dirt adhering to a disc, use a soft, dry cloth, and wipe the disc in a straight line starting from the inside and moving outwards.
- If difficult to clean, wipe the disc with a cloth moistened with water.
- Never use record cleaners, petrol, alcohol or any anti-static agents.



Recommendations for handling the magazine

- Always keep the magazine loaded with 6 disc trays.
- Do not expose it to high temperatures or direct sunlight.
- Do not dismantle the magazine.
- Take care not to drop or hit the magazine. Do not apply any pressure to the disc trays, especially when they are removed from the magazine.
- Never apply solvents such as petrol, thinner, or insecticide to the surfaces of the magazine or disc trays. Such solvents may damage their surfaces.

Troubleshooting

What appears to be a malfunction may not always be serious. Please go through the following list before requesting service.

Symptom	Possible cause	Remedy
The magazine is not expelled when the button is pressed.	The Power plug is disconnected from the AC outlet.	Connect the plug to an AC outlet.
No sound.	Incorrect output connections.	Connect properly.
The remote control unit does not function.	Batteries are exhausted.	Replace both batteries.
	There is an obstacle between remote control unit and the REMOTE SENSOR of the main unit.	Remove the obstacle.
	Direct sunlight is shining on the REMOTE SENSOR of the main unit.	Shade the unit from the direct sunlight.
Playback is not possible.	A disc is inserted upside down.	Load the discs label-side up.
	Disc is not loaded in the correct position.	Load the disc according to the groove of the disc tray.
	Moisture is condensed inside the unit.	Leave the unit turned on until the moisture evaporates.
A track on a CD is not played.	A CD is missing.	Load the CD.
	A CD is loaded upside down.	Load the CD with the label side up.
No sound from the headphones.	Output volume is set to the minimum level.	Adjust the volume with the PHONES LEVEL knob.
Sound is intermittent and/or harsh to the ear.	Disc is dirty.	Wipe off the disc surface with a soft cloth.
	Disc is warped.	Replace the disc.
	Disc is scratched.	Replace the disc.

GENERAL INFORMATION
XL-M417TN
XL-M317TN

GENERAL INFORMATION
XL-M5SD

Specifications

General
Format: Compact disc digital audio
Signal detection system: Non-contact optical detection
CD capacity: 7 discs
Sampling frequency: 44.1 kHz
Number of Channels: 2
Power requirements: AC 120 V ~, 60 Hz
Power consumption: 14 watts (POWER ON)
5 watts (STANDBY)
Dimensions (W x H x D): 435 x 126.5 x 334 mm
17-3/16 x 5 x 13-3/16 inches
Mass: 10.1 lbs (4.6 kg)

Audio performance
Frequency response: 2 Hz to 20,000 Hz (± 1 dB)
Dynamic range: More than 96 dB (at 1 kHz)
Signal to noise ratio: More than 107 dB
Total harmonic distortion: Less than 0.0022% (at 1 kHz)
Channel separation: More than 94 dB (at 1 kHz)
Wow and flutter: Below the measurable limit

Outputs
OUTPUT
output level: 2.0 Vrms (at 10 kohms)

Design and specifications subject to change without notice.

Specifications

General
Format: Compact disc digital audio
Signal detection system: Non-contact optical detection
CD capacity: 7 discs
Sampling frequency: 44.1 kHz
Number of Channels: 2
Power requirements: AC 120 V ~, 60 Hz
Power consumption: 14 watts (POWER ON)
5 watts (STANDBY)
Dimensions (W x H x D): 435 x 126.5 x 337.5 mm
17-3/16 x 5 x 13-5/16 inches
Mass: 10.2 lbs (4.6 kg)

Audio performance
Frequency response: 2 Hz to 20,000 Hz (± 1 dB)
Dynamic range: More than 99 dB (at 1 kHz)
Signal to noise ratio: More than 107 dB
Total harmonic distortion: Less than 0.002% (at 1 kHz)
Channel separation: More than 94 dB (at 1 kHz)
Wow and flutter: Below the measurable limit

Outputs
OUTPUT
output level: 2.0 Vrms (at 10 k Ohms)
OPTICAL
output level: -21 dBm to -15 dBm
wavelength: 660nm
PHONES
Jack type: 6.35 mm in diameter, stereo

Design and specifications subject to change without notice.

Magazine memory function character listing

(page)	A	B	C	D	E	F	G
	H	I	J	K	L	M	N
	O	P	Q	R	S	T	U
	V	W	X	Y	Z	0	1
	2	3	4	5	6	7	8
	9	/	*	+	-	.	

■ CHANGER MECH. (ELM-C600) Technical Explanation

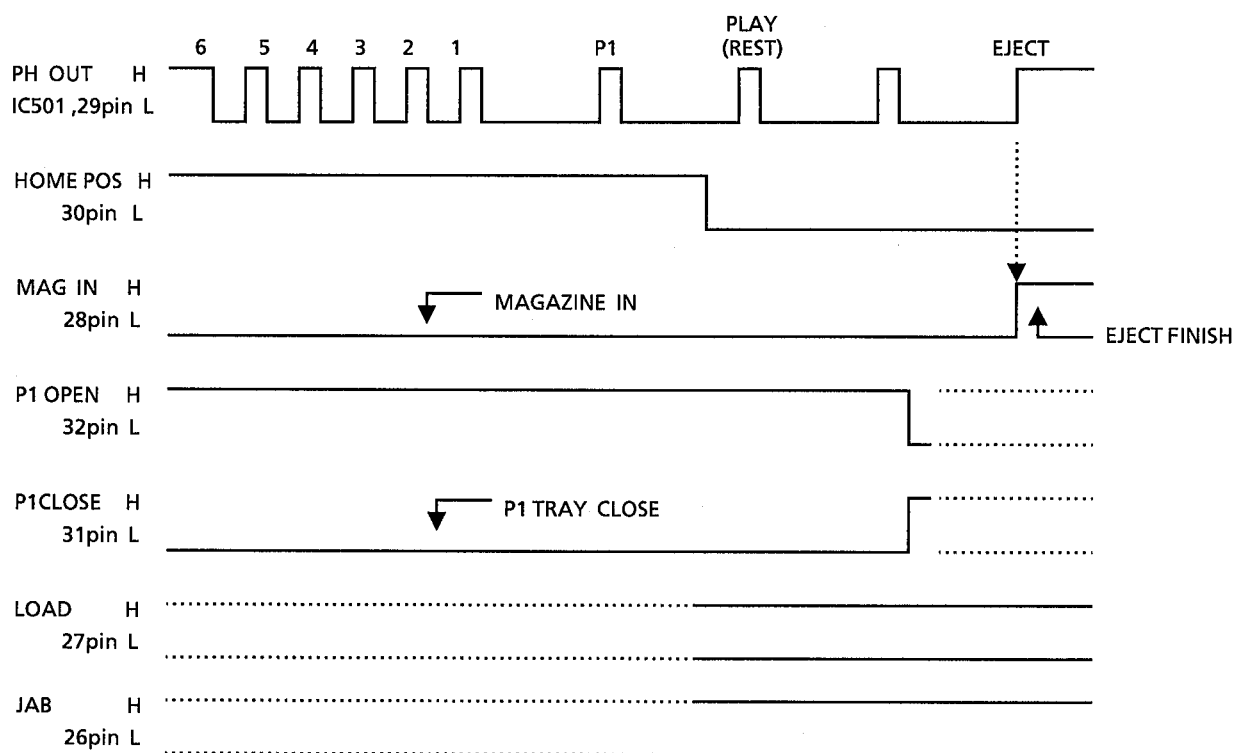
ELM-C600 has been simplified as keeping functions which current changer mech.s have so that every units can be easily assembled.

The followings show its operational specifications.

1. Basic operation

- ① Execute JAB(UNLOAD) after turning the power on.
- ② The elevator should be at PLAY(rest) position when P1 tray is opened or closed.
- ③ The elevator should be at PLAY(rest) position when magazine is ejected.
- ④ The tray should be returned to magazine when the tray is loaded from the magazine.
- ⑤ The Plus-1 tray is opned after returning a disc if the P1 OPEN button is processed while the tray is being loaded.
- ⑥ Photo interrupter only detects lift cam position (includes PLAY position).
- ⑦ For "HOME POS'SW", signal is read in case of retrying and mech. initializing.
- ⑧ Signal is read twice every 5 msec. to judge switch's on and off.
- ⑨ It takes 50 msec. after finishing one operation to start next one (switching motor rotation).

(1) Timing for each switches



..... : Range which H.Motor can rotate.
(That is, the range which magazine can be loaded or unloaded or Plus-1 tray can be opned or closed.)

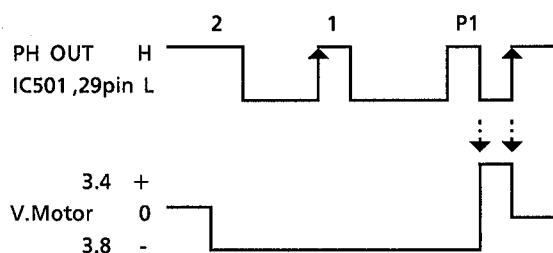
(2) Returning a disc in power failure

EEPROM memorizes step where the tray is pulled out it will be returned to its original step when power is supplied again.

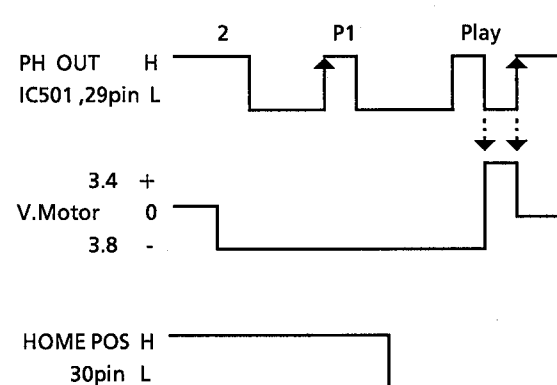
2. Moving lift cam

- 1) Signal of photo interrupter (PH OUT) is read twice every 5 msec..
- 2) Elevator is once lowered and start to rise to select a tray.
- 3) When the lift cam is moved, "PH OUT" is not detected during 50msec. which are set for masking.
(The lift cam should stop within limited slit. The above masking prevent miscounting caused by the lift cam passing the limit.)
- 4) P1 tray is closed before changing elevator height when "HOME POS" switch is on.

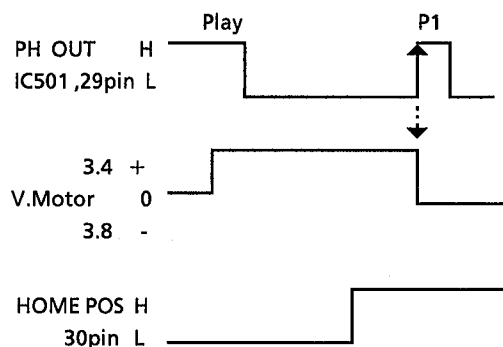
① Elevator Down(DISC 2→P1)



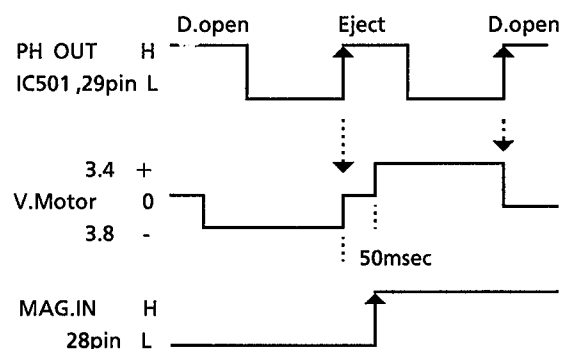
② Elevator Down(DISC 2→P1)



③ Elevator Up(PLAY→P1)



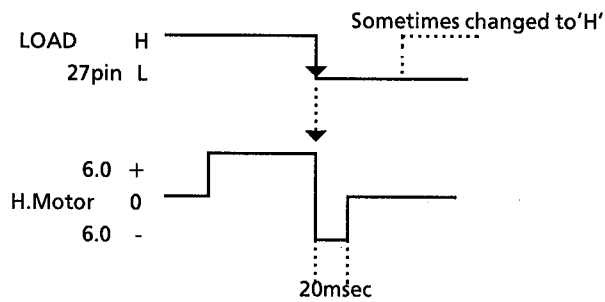
④ Eject



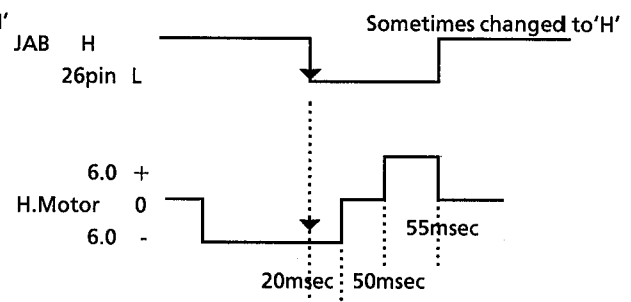
3. Tray LOAD/UNLOAD

- 1) The motor is rotated reversely for 20 msec. after LOAD switch is turned on.
- 2) The motor is rotated for 20 msec. in loading direction when "HOME SW" switch is off and "LOAD" switch is on after turning the power on.
- 3) JAB switch may sometimes be turned off after the operation.
- 4) LOAD switch may sometimes be turned off when the elevator is up to return a tray.

① Tray LOAD



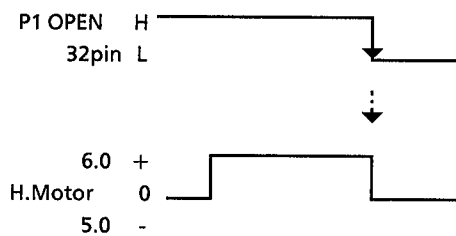
② Tray UNLOAD



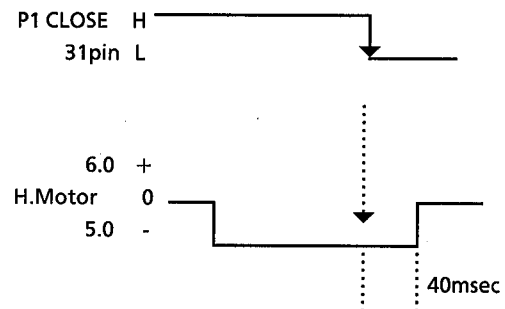
4. P-1 Tray OPEN/CLOSE

- 1) Closing the P-1 tray decrease voltage.
- 2) The tray starts the opening operation when 5 sec. timeout is finished after closing the tray.
- 3) The motor keeps its situation for 40 msec. after detecting P1 CLOSE switch on after closing the tray.

① P1 open



① P1 close



5. Magazine eject

Magazine is ejected slower than the cam's movement. 'MAG. IN' switch is turned off a certain period later after the cam is moved to "EJECT" position.

6. Mech. reset

The followings show modes for each switches while the mech. is reset (mech. initialization).

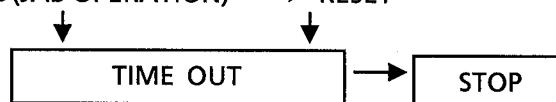
SW Name	Symble	SW Mode	IC501 Pin No	Out put (IC780)
P1 OPEN/CLOSE	S005	CLOSE side	31pin	L
LOAD/JAB	S003	NOT SELECTED	27/26pin	---
HOME POS	S002	ON	30pin	L
PHOTO SENSER	PH001	ON	29pin	L

7. Retrying operation at time out.

Retrying operation starts after timeout processing if operation time exceeds previously set time due to abnormality during its operation.

1) TRAY LOAD/UNLOAD

① LOADING → TIME OUT (10sec) → UN LOAD(JAB OPERATION) → RESET



② UNLOADING → TIME OUT (10sec) → LOAD → Elev.Down(Checking H.posSW) → Elev.UP → UNLOAD → RESET



2) ELEVATOR UP/DOWN

① UP OPERATION → TIME OUT (10sec) → Elev.Down(Checking H.posSW) → Elev.UP → RESET



3) P1 OPEN/CLOSE

① OPEN OPERATION → TIME OUT (10sec) → STOP(Standby for next operation)

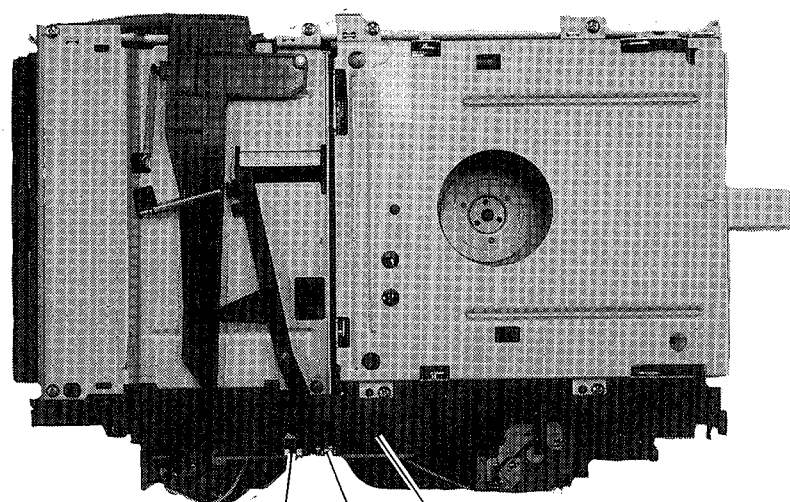
② CLOSE OPERATION → TIME OUT (5sec) → P1 OPEN → STOP(Standby for next operation)



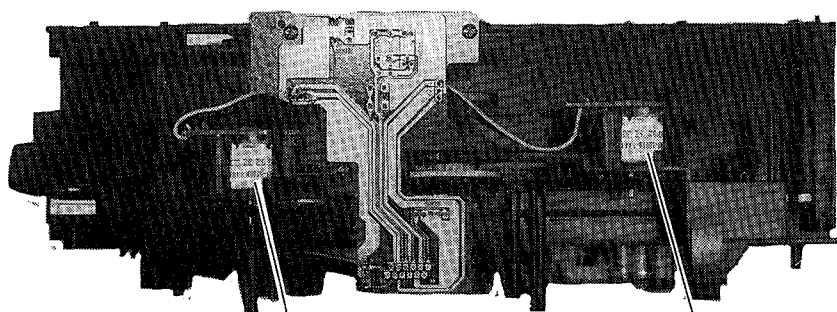
4) EJECT

WITHOUT RETRAY

■ Position of switch and motor

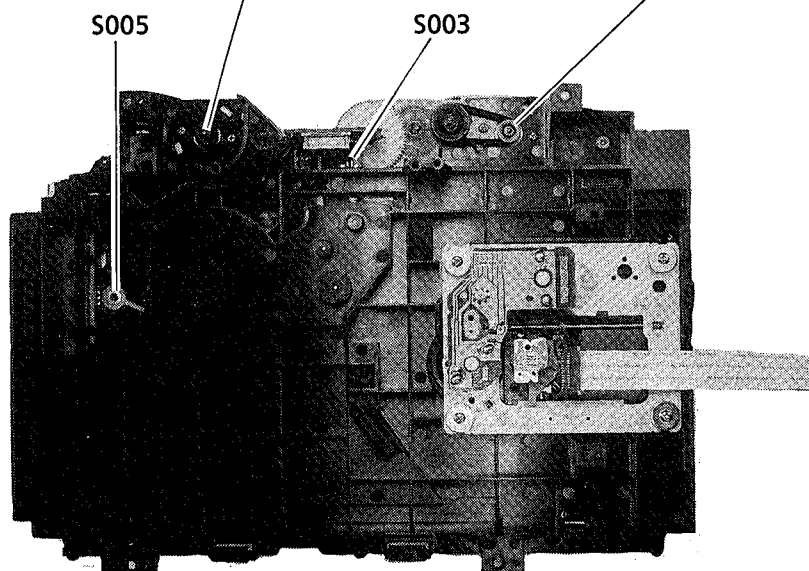


S001 S002 PH001



H.MOTOR

V.MOTOR



S005

S003

Description of Major LSIs

■ MN171601J6B1 (IC501) : SYSTEM CONTROLLER

1. Terminal Layout

VCC	1	64	OSC 1
LSI RESET	2	63	OSC 2
SQCK	3	62	GND
SUBQ	4	61	(NC)
MLD	5	60	GND
POWER ON	6	59	RESET
MCLK	7	58	SDA
SENSE	8	57	SCL
MDATA	9	56	CLOSE/UNLOAD
STATAS	10	55	OPEN/LOAD
RMIN	11	54	SD
COMRDY	12	53	DCS OUT
GND	13	52	DCS IN
TLOCK	14	51	GND
FLOCK	15	50	GND
CS	16	49	GND
D.MUTE	17	48	(NC)
STANDBY IND	18	47	(NC)
UP	19	46	(NC)
DOWN	20	45	M.KO4
(NC)	21	44	M.KO3
(NC)	22	43	M.KO2
COMDATA	23	42	M.KO1
COMCLK	24	41	M.KO0
REST SW	25	40	GND
JAB SW	26	39	MEMORY
LOAD SW	27	38	J001
MAG.IN	28	37	J002
PHOTO	29	36	M.KI3
H.P.SW	30	35	M.KI2
CLOSE SW	31	34	M.KI1
OPEN SW	32	33	M.KI0

2. Key Matrix

	M.KEY IN0 (pin33)	M.KEY IN1 (pin34)	M.KEY IN2 (pin35)	M.KEY IN3 (pin36)
M.KEY OUT 4 (pin45)	3	4	6	5
M.KEY OUT 3 (pin44)	POWER	P	2	1
M.KEY OUT 2 (pin43)	▶▶	▶/II		EJECT
M.KEY OUT 1 (pin42)	◀◀		OPEN /CLOSE	PLAY MODE
M.KEY OUT 0 (pin41)		DISPLAY /CALL	STOP CANSEL	REPEAT

3. Description

Pin No.	Symbol	I/O	Description	Pin No.	Symbol	I/O	Description
1	VCC	I	Power supply	33	M.KI0	I	Magazin Key matrix input
2	LSI RESET	O	Lsi reset signal output	34	M.KI1	I	Magazin Key matrix input
3	SQCK	O	Clock output for Q-resistor	35	M.KI2	I	Magazin Key matrix input
4	SUBQ	I	Input Q-data of subcode	36	M.KI3	I	Magazin Key matrix input
5	MLD	O	μ-com command load signal output	37	J002	I	Jog signal input (From IC201)
6	POWER ON	O	L: power ON H: power off	38	J001	I	Jog signal input (From IC201)
7	MCLK	O	D.Servo command data signal output	39	MEMORY	O	Memory KEY detect signal output (to IC201)
8	SENSE	I	Sense signal input	40	GND	--	GND
9	MDATA	O	μ-com command data signal output	41	M.KO0	O	Magazin Key matrix output
10	STATAS	I	Statas signal input	42	M.KO1	O	Magazin Key matrix output
11	RMIN	I	Remote contorole input	43	M.KO2	O	Magazin Key matrix output
12	COMRDY	I	Command ready signal input(from IC201)	44	M.KO3	O	Magazin Key matrix output
13	GND	--	GND	45	M.KO4	O	Magazin Key matrix output
14	TLOCK	I	Lock signal for Tracking	46	(NC)	--	Non conection
15	FLOCK	I	Lock signal for Focus	47	(NC)	--	Non conection
16	CS	I	Chip select input (L : M5SD/M516 H : other)	48	(NC)	--	Non conection
17	D.MUTE	O	Non conection	49	GND	--	GND
18	STANDBY IND	O	Standby indicator output	50	GND	--	GND
19	UP	O	Mecha UP control signal	51	GND	--	GND
20	DOWN	O	Mecha DOWN control signal	52	DCS IN	I	DCS signal input
21	(NC)	--	Non conection	53	DCS OUT	O	DCS signal output
22	(NC)	--	Non conection	54	SD	--	Non conection
23	COMDATA	O	Command data output to IC201	55	OPEN/LOAD	O	P1 open and tray load control signal
24	COMCLK	O	Command clock output to IC201	56	CLOSE/UNLOAD	O	P1 close and tray unload control signal
25	REST SW	I	L : with picup at rest position	57	SCL	O	Sift clock for IC502
26	JAB SW	I	Jab switch signal	58	SDA	I/O	Data I/O with IC502
27	LOAD SW	I	Disc load detect signal	59	RESET	I	Reset signal input
28	MAG.IN	I	Magazine In signal	60	GND	--	GND
29	PHOTO	I	Disc position count signal input	61	(NC)	--	Non conection
30	H.P.SW	I	Mecha home position signal	62	GND	--	GND
31	CLOSE SW	I	Tray close 'L'	63	OSC 2	O	Clock oscillaition out put
32	OPEN SW	I	Tray open 'L'	64	OSC 1	I	Clock oscillaition input

■ MN171202J6A (IC201) : JOG CONTROLL & FL DRIVER

1. Terminal Layout

VCC	1	64	OSC 1
17G	2	63	OSC 2
16G	3	62	GND
15G	4	61	(NC)
14G	5	60	GND
13G	6	59	E ² CLOCK
12G	7	58	E ² DATA
11G	8	57	NC
10G	9	56	MEMORY
9G	10	55	JOG01
8G	11	54	JOG 02
7G	12	53	KO1
6G	13	52	KO0
5G	14	51	KI3
4G	15	50	KI2
3G	16	49	KI1
2G	17	48	KI0
-VDISP	18	47	(JOG 11
S1	19	46	JOG 12
S2	20	45	E ² 4K/16K
S3	21	44	INH
S4	22	43	RESET
S5	23	42	COMRDY
S6	24	41	COMDATA
S7	25	40	COMCLK
S8	26	39	1G
S9	27	38	S20
S10	28	37	S19
S11	29	36	S18
S12	30	35	S17
S13	31	34	S16
S14	32	33	S15

2. Key Matrix

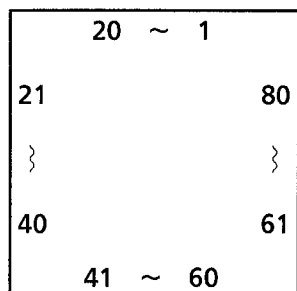
	KEY IN0 (pin48)	KEY IN1 (pin49)	KEY IN2 (pin50)	KEY IN3 (pin51)
KEY OUT 1 (pin53)	ENTER MEMORY	→	←	TITLE SEARCH
KEY OUT 0 (pin52)			TITLE INPUT	DISC SEARCH

2. Description

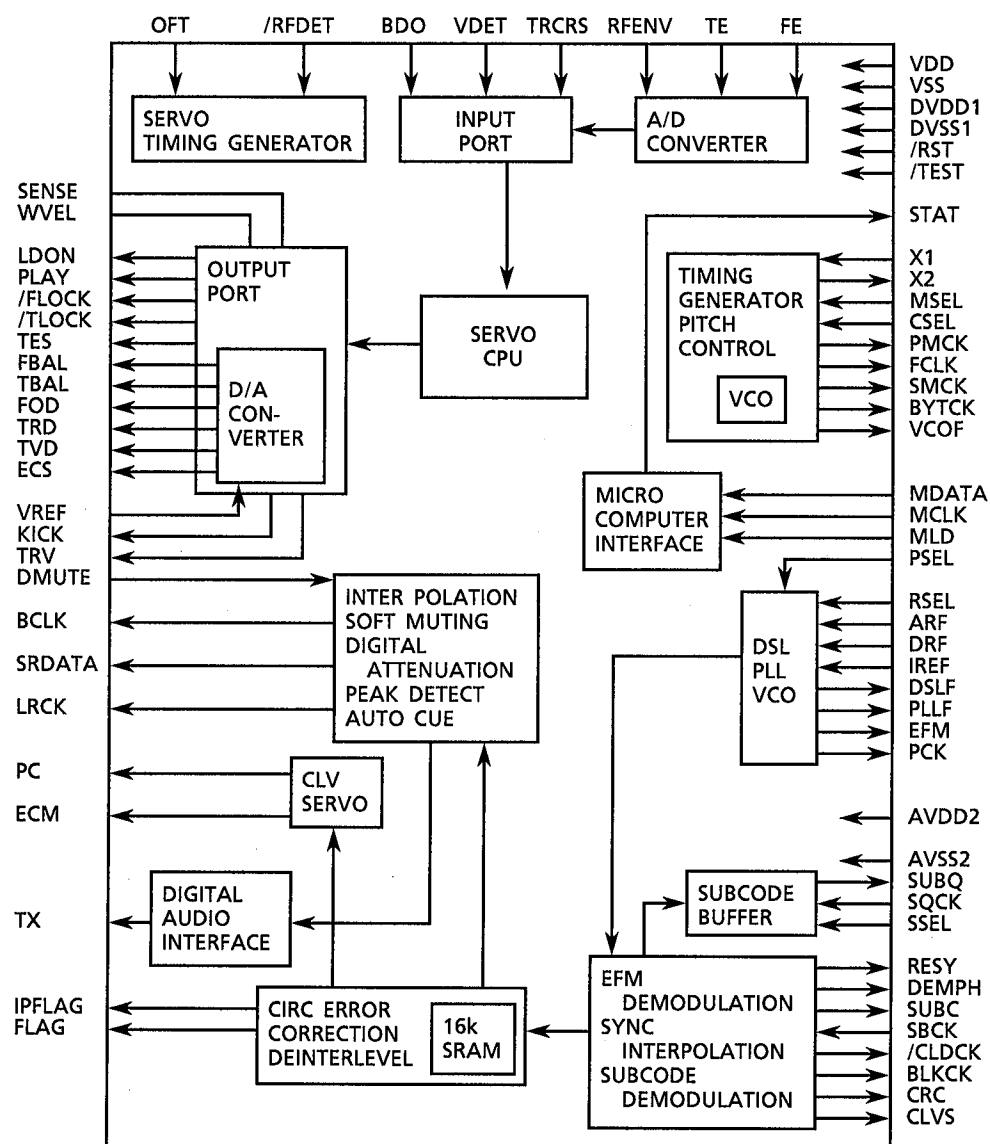
Pin No.	Symbol	I/O	Description	Pin No.	Symbol	I/O	Description
1	VCC	--	Power supply	33	S15	O	FL segment control output
2	17G	O	FL grid control output	34	S16	O	FL segment control output
3	16G	O	FL grid control output	35	S17	O	FL segment control output
4	15G	O	FL grid control output	36	S18	O	FL segment control output
5	14G	O	FL grid control output	37	S19	O	FL segment control output
6	13G	O	FL grid control output	38	S20	O	FL segment control output
7	12G	O	FL grid control output	39	1G	O	FL grid control output
8	11G	O	FL grid control output	40	COMCLK	I	Request input (from IC201)
9	10G	O	FL grid control output	41	COMDATA	I	Data input (from IC201)
10	9G	O	FL grid control output	42	COMRDY	O	Ready signal output to IC201
11	8G	O	FL grid control output	43	RESET	I	Reset signal input
12	7G	O	FL grid control output	44	INH	I	Connect to Bu +5V
13	6G	O	FL grid control output	45	E ² 4K/16K	I	Chip select (H:M5SD-M516 L: other)
14	5G	O	FL grid control output	46	JOG 12	I	JOG signal input
15	4G	O	FL grid control output	47	JOG 11	I	JOG signal input
16	3G	O	FL grid control output	48	KI0	I	Key matrix input
17	2G	O	FL grid control output	49	KI1	I	Key matrix input
18	-VDISP	--	Power supply	50	KI2	I	Key matrix input
19	S1	O	FL segment control output	51	KI3	I	Key matrix input
20	S2	O	FL segment control output	52	KO0	O	Key matrix out
21	S3	O	FL segment control output	53	KO1	O	Key matrix out
22	S4	O	FL segment control output	54	JOG 02	O	Gog signal output to IC 501
23	S5	O	FL segment control output	55	JOG01	O	Gog signal output to IC 501
24	S6	O	FL segment control output	56	MEMORY	I	MEMORY KEY detect signal input from IC501
25	S7	O	FL segment control output	57	NC	--	NON connect
26	S8	O	FL segment control output	58	E ² DATA	I/O	DATA I/O with IC202
27	S9	O	FL segment control output	59	E ² CLOCK	O	Sift clock to IC202
28	S10	O	FL segment control output	60	GND	--	Connect to GND
29	S11	O	FL segment control output	61	NC	--	Non connect
30	S12	O	FL segment control output	62	GND	--	Non connect
31	S13	O	FL segment control output	63	OSC 2	O	Clock osillation output
32	S14	O	FL segment control output	64	OSC 1	I	Clock osillation input

■ MN662720RB (IC650) : DIGITAL SERVO & DIGITAL SIGNAL PROCESSOR

1. Terminal Layout



2. Block Diagram



3. Description

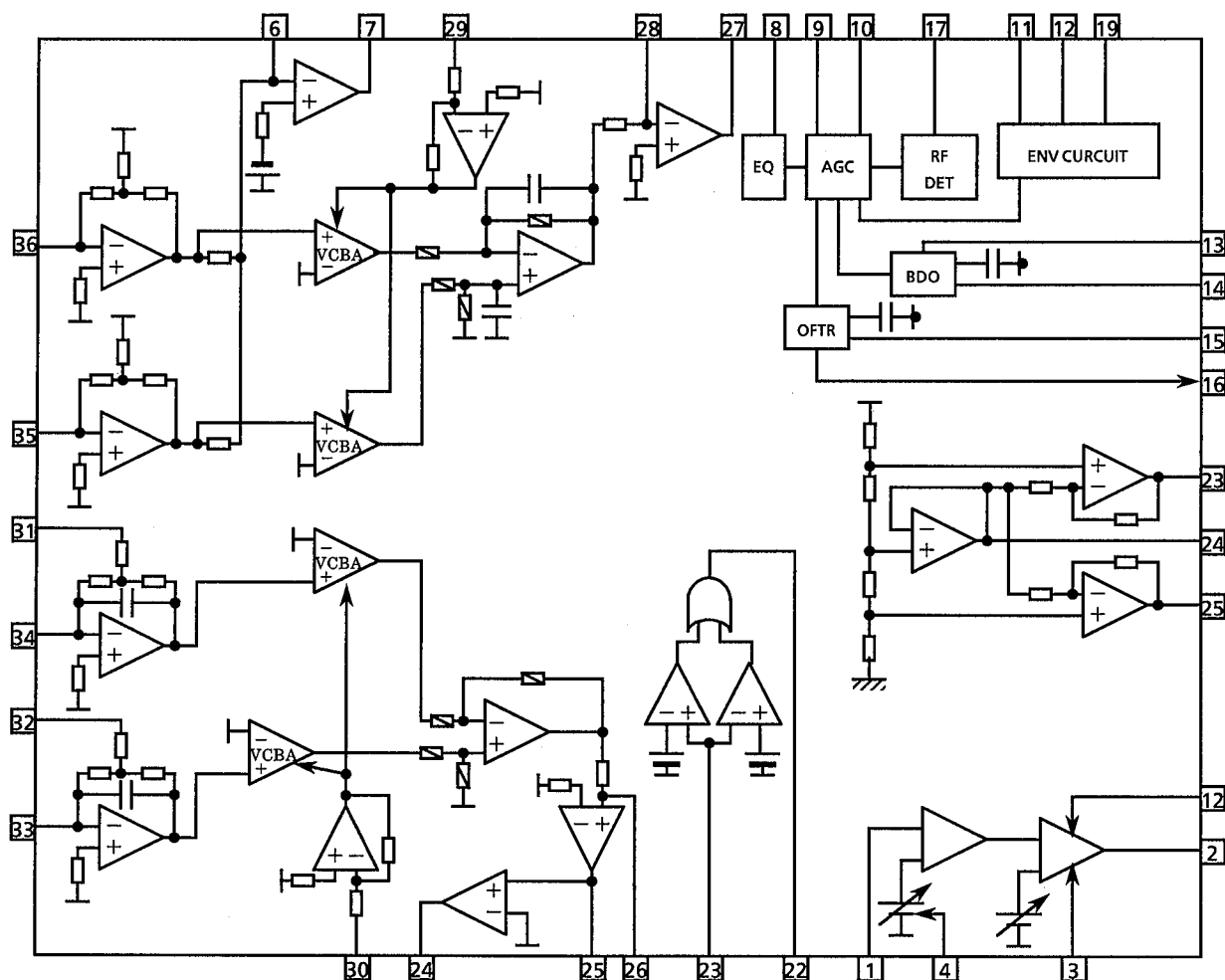
Pin No.	symbol	I/O	Description	Pin No.	symbol	I/O	Description
1	BCLK	O	Bit clock output pin for SRDATA	41	TES	—	Not used
2	LRCK	O	L/R distinction signal	42	PLAY	—	“
3	SRDATA	O	Serial data output	43	WVEL	—	“
4	DVDD1	—	Power supply	44	ARF	I	RF signal input
5	DVSS1	—	Connected to GND	45	IREF	I	Reference current input pin
6	TX	O	Digital audio interface signal	46	DRF	I	Bias adjustment pin for DSL
7	MCLK	I	μ-com command clock signal input	47	DSL	I/O	Loop filter pin for DSL
8	MDATA	I	μ-com command data input	48	PLL	I/O	Loop filter pin for PLL
9	MLD	I	μ-com command load signal input	49	VCOF	—	Not used
10	SENSE	O	Sense signal output	50	AVDD2	—	Power supply
11	FLOCK	O	Lock signal for Tracking	51	AVSS2	—	Connected to GND
12	TLOCK	O	Lock signal for Focus	52	EFM	—	Not used
13	BLKCK	—	Not used	53	PCK	—	“
14	SQCK	I	Clock for sub-code Q resister	54	PDO	—	“
15	SUBQ	O	Sub-code Q-code output	55	SUBC	—	“
16	DMUTE	I	Muting input (H : MUTE)	56	SBCK	—	Connected to GND
17	STATUS	O	Status signal	57	VSS	—	“
18	/RST	I	Reset signal input (L:Reset)	58	X1	I	Input of 16.9344MHz X'tal oscillation circuit
19	SMCK	—	Not used	59	X2	—	Not used
20	PMCK	—	Not used	60	VDD	—	Power supply
21	TRV	O	Traverse enforced output	61	BYTCK	—	Not used
22	TVD	O	Traverse drive output	62	CLDCK	—	“
23	PC	—	Not used	63	FCLK	—	“
24	ECM	O	Spindle motor drive signal (Enforced output) 3-State	64	IPFLAG	—	“
25	ECS	O	Spindle motor drive signal (Servo signal)	65	FLAG	—	“
26	KICK	O	Kick pulse output	66	CLVS	—	“
27	TRD	O	Tracking drive output	67	CRC	—	“
28	FOD	O	Focus drive output	68	DEMPH	O	De-emphasis ON signal (H : ON)
29	VREF	I	Reference voltage input pin	69	RESY	—	Not used
30	FBAL	O	Focus Balance adjust signal output	70	NC1	—	Connected to GND
31	TBAL	O	Tracking Balance adjust signal output	71	/TEST	—	Pull up (+5V)
32	FE	I	Focus error signal input	72	AVDD1	—	Power supply
33	TE	I	Tracking error signal input	73	NC2	—	Not used
34	RF ENV	I	RF envelope signal input	74	AVSS1	—	Connected to GND
35	VDET	I	Vibration detect signal input	75	NC3	—	Not used
36	OFT	I	Off track signal input	76	RSEL	—	Pull up (+5V)
37	TRCRS	I	Track cross signal input	77	CSEL	—	Connected to GND
38	/RFDET	I	RF detect signal input	78	PSEL	—	“
39	BDO	I	BDO input pin	79	MSEL	—	“
40	LDON	O	Laser ON signal output	80	SSEL	—	Pull up (+5V)

■ AN8806SB (IC600) : RF & SERVO AMP

1. Terminal Layout

PD	1	36 PDAC
LD	2	35 PDBD
LDON	3	34 PDE
LDP	4	33 PDF
VCC	5	32 PDER
RF-	6	31 PDFR
RF OUT	7	30 TBAL
RF IN	8	29 FBAL
C.AGC	9	28 FE-
ARF	10	27 FE OUT
C.ENV	11	26 TE-
C.EA	12	25 TE OUT
CS BDO	13	24 CROSS
BDO	14	23 TE BPF
CS BRT	15	22 VDET
OFTR	16	21 LD OFF
/NRFD	17	20 VREF
GND	18	19 ENV

2. Block Diagram



3. Description

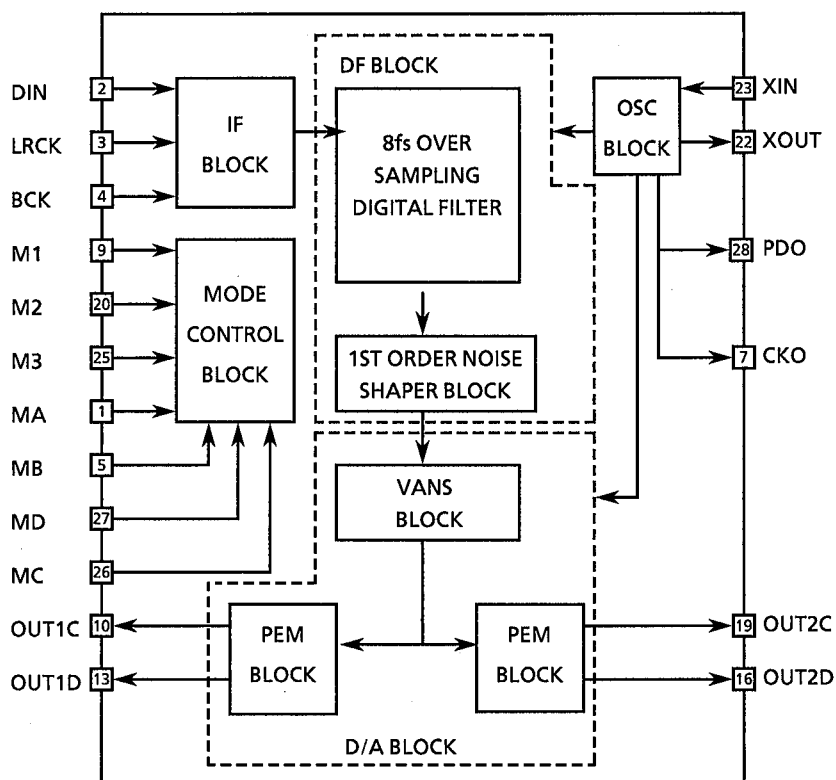
Pin No.	Symbol	I/O	Description
1	PD	I	APC Amp input
2	LD	O	APC Amp output
3	LD ON	--	APC ON/OFF control signal input
4	LDP	--	Connected to GND
5	VCC	--	Power supply
6	RF-	I	Inverse input pin for RF amp
7	RF OUT	O	RF amp output pin
8	RF IN	I	AGC input pin
9	C.AGC	I/O	Connecting pin of AGC loop filter
10	ARF	O	AGC output pin
11	C.ENV	I/O	A capacitor is connected to this terminal to detect the envelope of RF signal
12	C.EA	I/O	A capacitor is connected to this terminal to detect the envelope of RF signal
13	CS BDO	I/O	A capacitor is connected to detect the lower envelope of the RF signal
14	BDO	O	BDO output pin
15	CS BRT	I/O	A capacitor is connected to detect the lower envelope of the RF signal
16	OFTR	O	Of-track status signal output pin
17	/NRFDET	O	RF detection signal output pin
18	GND	--	GND
19	ENV	O	Envelope output
20	VREF	O	Reference voltage output pin
21	LD OFF	--	Connect to GND
22	VDET	O	Vibration detection signal output pin
23	TE BPF	I	Input pin of tracking error through BPF
24	CROSS	O	Tracking error cross output pin
25	TE OUT	O	Tracking error signal output pin
26	TE-	I	Inverse input pin for tracking error amp
27	FE OUT	O	Output pin of focus error
28	FE-	I	Inverse input pin for focus error amp
29	FBAL	I	Focus balance control pin
30	TBAL	I	Tracking balance control pin
31	PDFR	I/O	E and E I-V amp gain control pin
32	PDER	I/O	F and E I-V amp gain control pin
33	PDF	I	I-V amp input pin
34	PDE	I	I-V amp input pin
35	PD BD	I	I-V amp input pin
36	PD AC	I	I-V amp input pin

■ MN35503(IC750) : D / A CONVERTER

1. Terminal Layout

MA	1	28	PDO
DIN	2	27	MD
LRCK	3	26	MC
BCK	4	25	M3
MB	5	24	DVDD1
DVDD2	6	23	XIN
CKO	7	22	XOUT
DVSS5	8	21	DVSS1
M1	9	20	M2
OUT1C	10	19	OUT2C
NC	11	18	NC
AVDD1D	12	17	AVDD2
OUT1D	13	16	OUT2D
AVSS	14	15	AVSS2

2. Block Diagram



3. Description

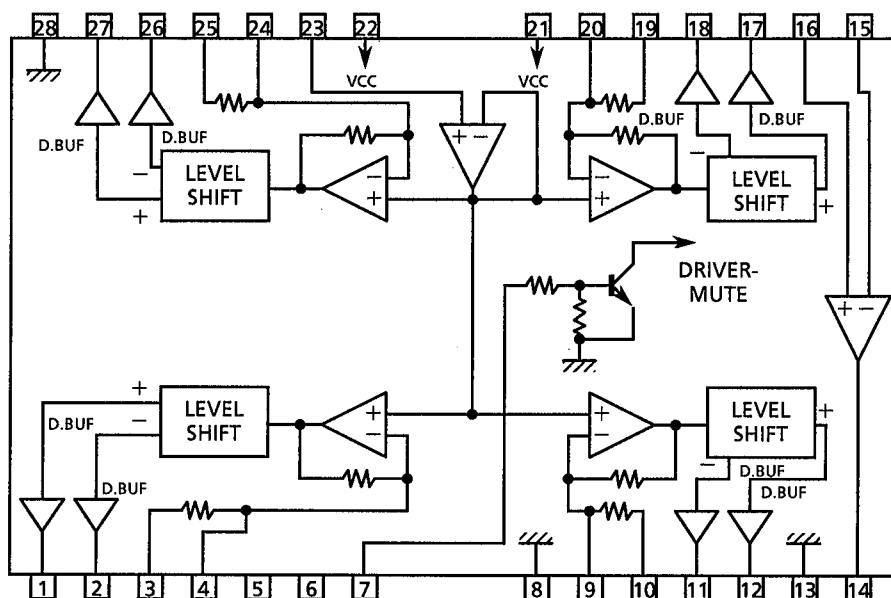
Pin No	Symbol	I/O	Description	Pin No	Symbol	I/O	Description
1	DIN	I	Operational node 4	15	AVSS2	--	Analog ground 2
2	DIN	I	DATA input	16	OUT2d	O	2D PEM output
3	LRCK	I	LR clock input	17	OUT2D	O	2D PEM output
4	BCK	I	Bit clock input	18	NC	--	Non conection
5	MB	I	Operational mode control 5	19	OUT2C	O	2C PEM output
6	DVDD2	--	Digital power supply 2	20	M2	O	Operational node 2
7	CKO	O	Clock output	21	DVSS1	--	Digital ground pin .1
8	DVSS2	--	Digital ground 2	22	XOUT	O	Crystal oscillator output
9	M1	--	Connected to ground	23	XIN	I	Crystal oscillator input
10	OUT1C	O	1C PEM output	24	DVDD1	--	Digital power supply 1
11	NC	O	Non conection	25	M3	I	Operational node 3
12	AVDD1	--	Analog power supply 1	26	MC	I	Reset signal / Digital Att. control signal input
13	OUT1D	O	1D PEM output	27	MD	I	Reset signal / Digital Att. control signal input
14	AVSS1	--	Analog ground 1	28	PDO	O	Phase comparator output pin

■ BA6398FP(IC700) : BTL DRIVER

1. Terminal Layout

CH1-OUT A	1	28	GND
CH1-OUT B	2	27	CH4-OUT A
CH1-IN A	3	26	CH4-OUT B
CH1-IN B	4	25	CH4-IN A
NC	5	24	CH4-IN B
NC	6	23	BIAS IN
MUTE	7	22	VCC
GND	8	21	VCC
CH2-IN B	9	20	CH3-IN B
CH2-IN A	10	19	CH3-IN A
CH2-OUT B	11	18	CH3-OUT B
CH2-OUT A	12	17	CH3-OUT A
GND	13	16	OP IN+
OP OUT	14	15	OP IN-

2. Block Diagram

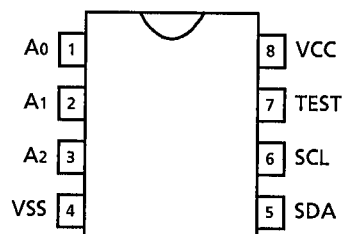


3. Description

Pin No.	Symbol	I/O	Description	Pin No.	Symbol	I/O	Description
1	CH1-OUT A	O	Focus drive output	8,13,28	GND	—	GND
2	CH1-OUT B	O		11	CH2-OUT B	O	Spindle motor drive output
4	CH1-IN B	I	Focus drive input	12	CH2-OUT A	O	
3	CH1-IN A	—	Non connection	14	OP OUT	O	OP amp output
5,6	NC			15,16	OP IN	I	OP amp input
10	CH2-IN A			17	CH3-OUT A	O	Feed motor drive output
19	CH3-IN A			18	CH3-OUT B		
25	CH4-IN A			21,22	Vcc	—	Power supply
7	MUTE	I	Mute signal input pin	23	BIAS IN	I	Input pin of Bias
9	CH2-IN B	I	Spindle motor drive input	26	CH4-OUT B	O	Tracking drive output
20	CH3-IN B	I	Feed motor drive input	27	CH4-OUT A		
24	CH4-IN B	I	Tracking drive input				

■ AT24C04-10PC(XL-M417TN/XL-M317TN)
AT24C16-10PC(XL-M5SD) (IC202) : Serial Eeprom
AT24C01-10PC(IC502)

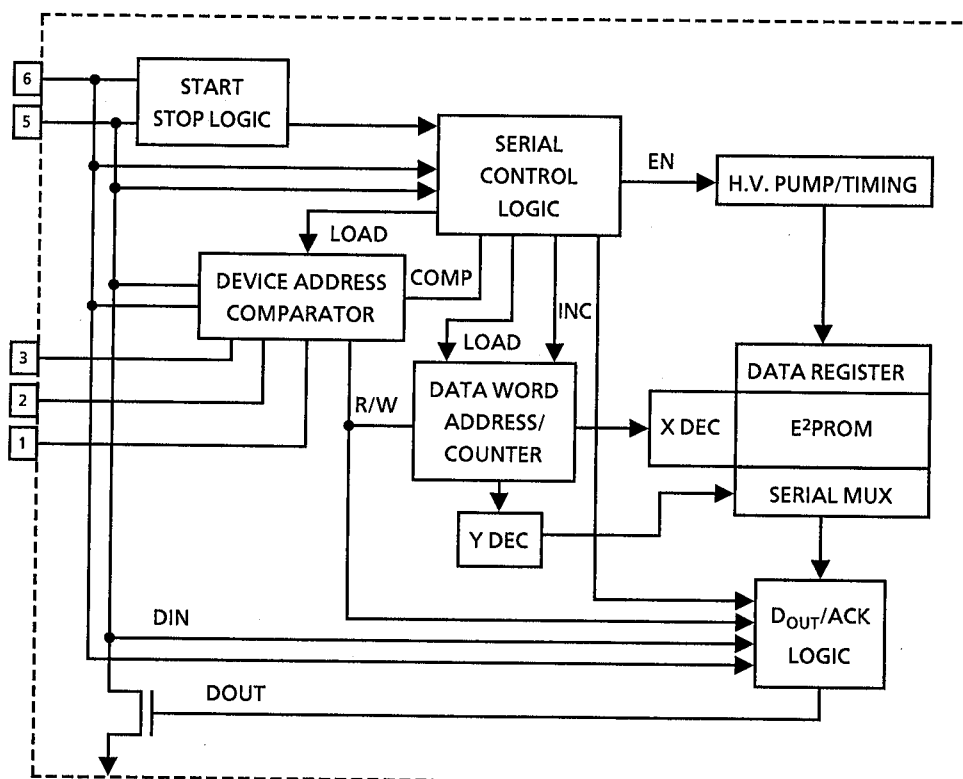
1. Terminal Layout



2. Terminal Functions

Pin No.	Symbol	Functions
1~3	A0~A2	ADDRESS INPUT (Connected to GND)
4	VSS	GND
5	SDA	SERIAL DATA
6	SCL	SERIAL CLOCK
7	TEST	TEST PIN (CONNECTED TO GND)
8	VCC	POWER SUPPLY

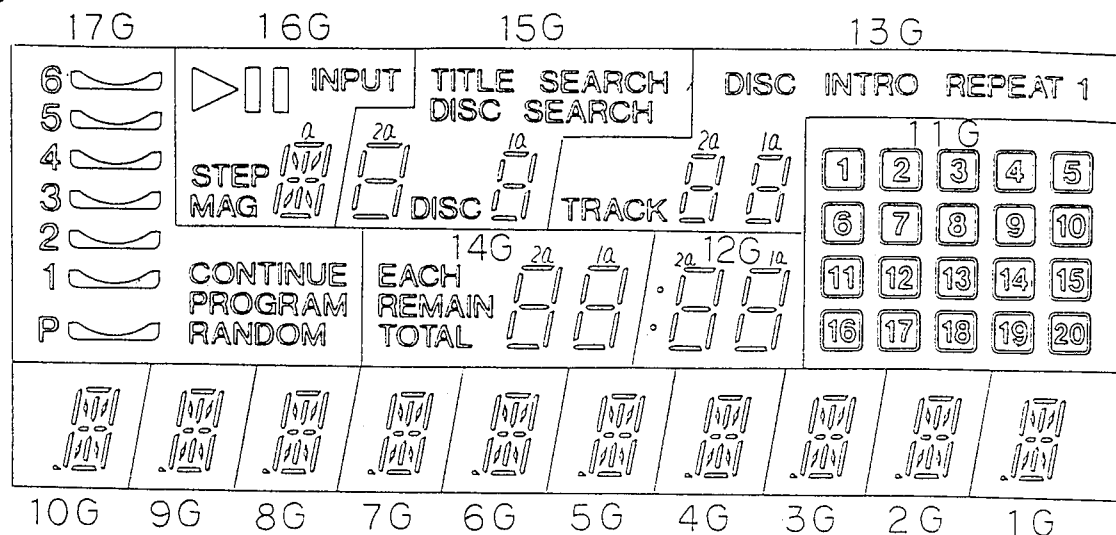
3. Block Diagram



Internal Connection of the Display

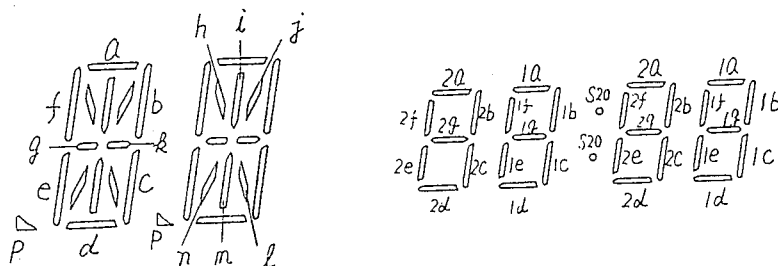
■ ELU0001-204: FL TUBE(FL800)

(1) Grid Layout



(2) Anode Designation

	17G	16G	15G	14G	13G	12G	11G	1~10G
S1	CONTINUE	▶	TITLE	EACH	DISC		1	
S2	PROGRAM	■	SEARCH	REMAIN	INTRO		2	
S3	RANDOM	INPUT	DISC	TOTAL	REPEAT		3	
S4		STEP	SEARCH		1		4	
S5		MAG					5	
S6	(6)	a	1a	1a	1a	1a	6	a
S7	(5)	b	1b	1b	1b	1b	7	b
S8	(4)	i	1f	1f	1f	1f	8	i
S9	(3)	j	1g	1g	1g	1g	9	j
S10	(2)	h	1c	1c	1c	1c	10	h
S11	(1)	f	1e	1e	1e	1e	11	f
S12	(P)	k	1d	1d	1d	1d	12	k
S13	6	g	2a	2a	2a	2a	13	g
S14	5	c	2b	2b	2b	2b	14	c
S15	4	l	2f	2f	2f	2f	15	l
S16	3	n	2g	2g	2g	2g	16	n
S17	2	m	2c	2c	2c	2c	17	m
S18	1	e	2e	2e	2e	2e	18	e
S19	P	d	2d	2d	2d	2d	19	d
S20			DISC		TRACK	:	20	o



(3) Pin Connections

TERMINAL NO.	1	2	3	4	5	6	7	8	9	10	11	12									
ELECTRODE	F	F	F	17G	16G	15G	14G	13G	12G	11G	10G	9G									
TERMINAL NO.	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	
ELECTRODE	8G	7G	6G	5G	4G	3G	2G	1G	P s1	P s2	P s3	P s4	P s5	P s6	P s7	P s8	P s9	P s10	P s11	P s12	
TERMINAL NO.											33	34	35	36	37	38	39	40	41	42	43
ELECTRODE											P s13	P s14	P s15	P s16	P s17	P s18	P s19	P s20	F	F	F

Notes F: Filament
G: Grid
P: Anode

Disassembly Procedures

(1) Top cover removal

1. Remove 2 screws (A) on the rear side and 4 screws (B) on both sides of the cover.
2. Remove the cover.

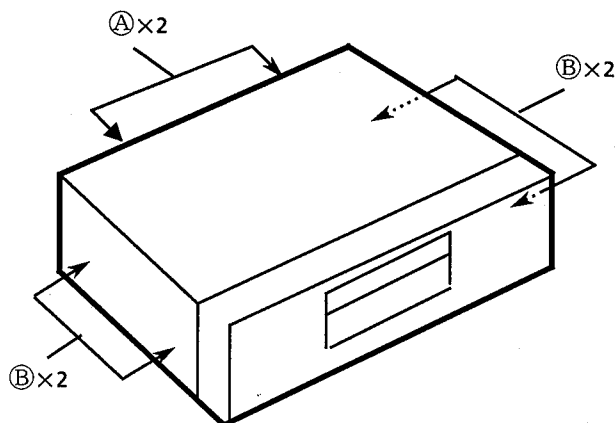


Fig1

(2) Rear panel removal

1. Remove the top cover.
2. Remove the 8 screws (A).
3. Remove the rear panel.

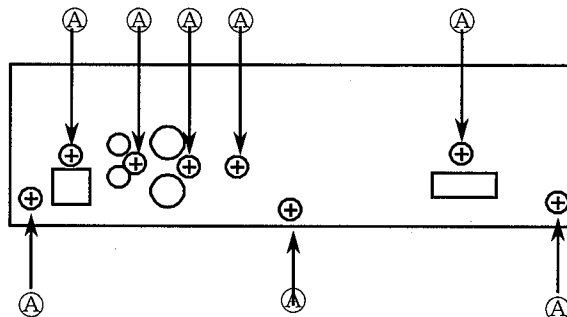


Fig2 Rear view

(3) Removing the front panel assembly

1. Remove the top cover.
2. Remove the 3 screws (D) on the bottom of the front panel.
3. Remove the connector CN301, P107cn302, and CN303, CN101.
4. Remove the front panel assembly.

(4) Audio PCB ass'y(ENN-444-1) removal

1. Remove the (1)(2).
2. Disconnect the CN301, CN302 and CN303, CN304.
3. Remove the 2 screws (E).
4. Remove the Audio PCB ass'y.

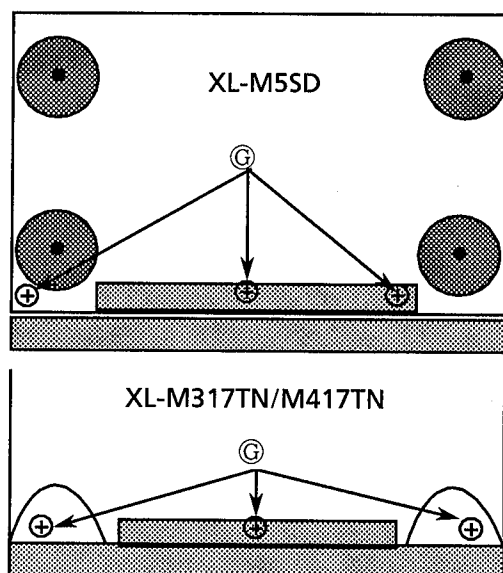


Fig 3 Bttom view

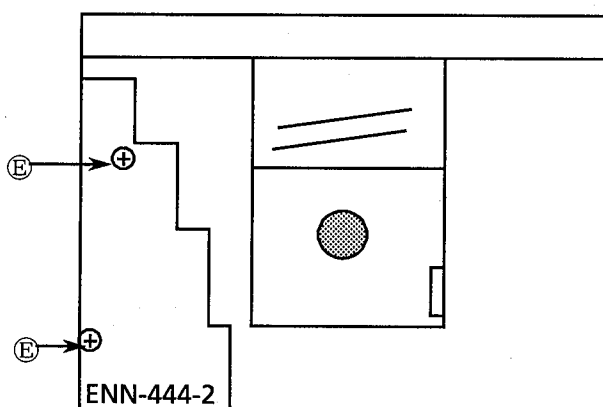


Fig 4 Top view

(A) E73273-006 (B) E406308-001 (D) SDSG3006M (E) GBSG3008CC

(5) Power PCB(ENN-444-1) removal

1. Remove (1) and (2).
2. Remove the 2screws ① and 2screws ②.
3. Remove the connectors CN101 and CN102.
4. Remove the Power PCB(ENN-444-1).

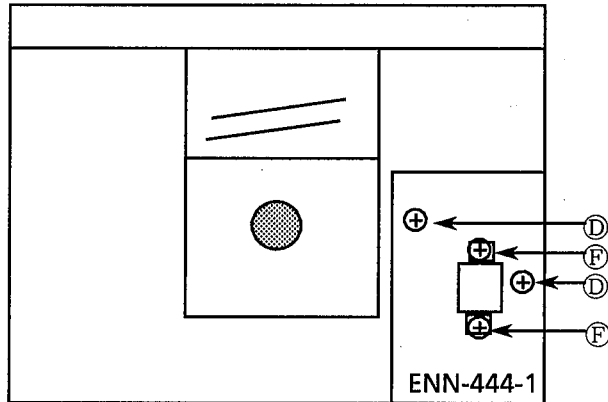


Fig 5 Top view

(6) Front PCB(ENN-444-3~5) and H.phon PCB removal

1. Remove the (1) and (3).
2. Remove the JOG Knob.
3. Remove the 11screws ③.
4. Remove the Front PCB(ENN-444-3~5) and H.phon PCB.

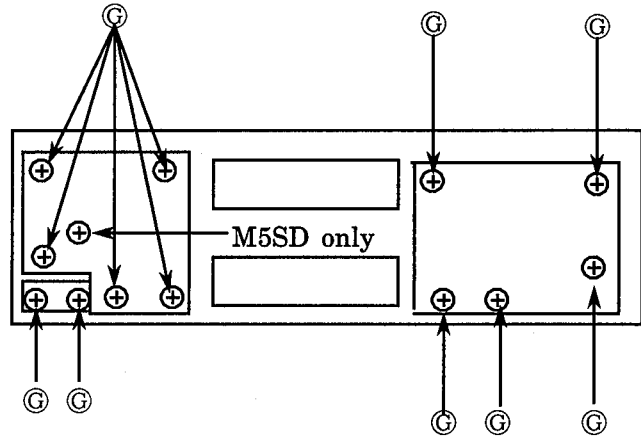


Fig 6 Front PCB view

(7) CD changer mecha ass'y removal

1. Remove the(1) (2) (4).
2. Remove the 4screws ④.
3. Remove CD changer mecha ass'y.

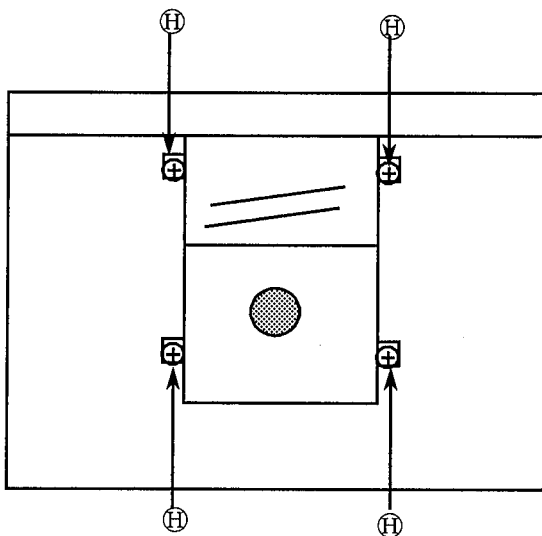


Fig 7 Top view

(8) CD PCB(ENN-435) removal

1. Remove the (1) (2) (4) (7).
2. Remove the 2screws ① ②.
3. Disconnect the 6pin conector to the traverse mech..
4. Remove the CD PCB(ENN-445).

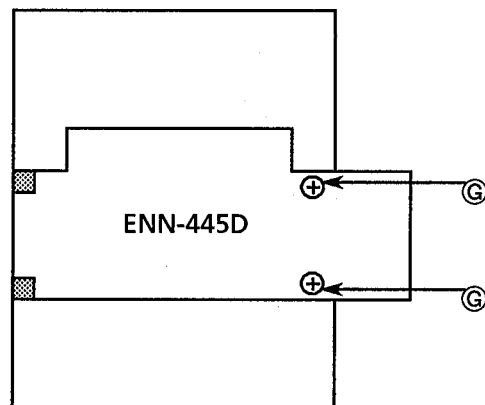


Fig 8 Top view

- (9) Traverse mecha removal
1. Remove the CD mech. ass'y.
 2. Remove the CD PCB.
 3. Remove the 4 screws ①.
 4. Remove the traverse mecha. ass'y.

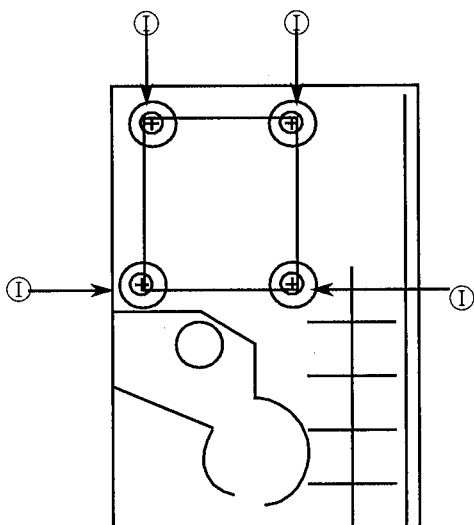


Fig 9 Mech.. Bottom side

- (10) Assembling traverse mecha. ass'y
1. Put insulators' grooves certainly into cuttings on the traverse mecha..
 2. Insert springs into the insulators.
 3. Secure screws to fix them.

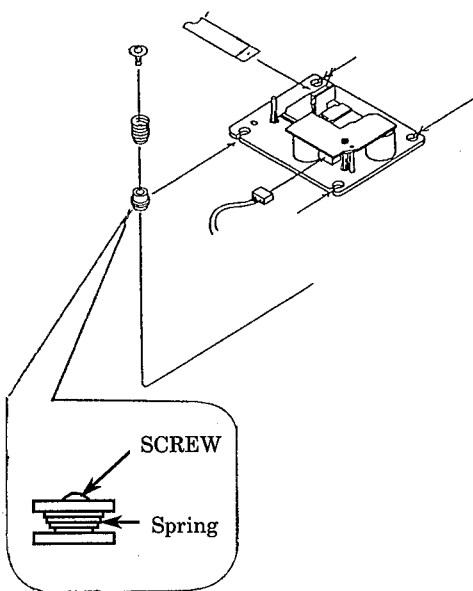
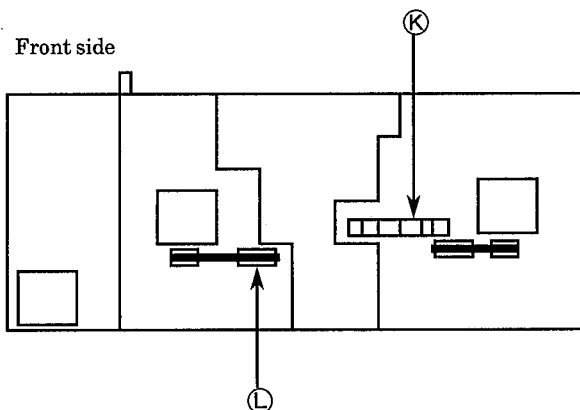


Fig 10 Traverse mecha

■ EJECTION OF DISC AND MAGAZINE IN POWER-OFF MODE

- (11) Disc
1. Rotate gearⓀ to move the elevator to the disc's position inside the unit.
 2. Turn the idler pulleyⓁ to return the disc on the tray.
 3. Lower the elevator to the bottom and rotate pulleyⓁ to eject the P1 tray.



- (12) Magazine
1. Return a disc into the magazine. (See the above (11).)
 2. Pull a magazine lock lever which is on the changer mech. toward the front side to release the magazine lock and eject the magazine. (See an arrow in the figure.)

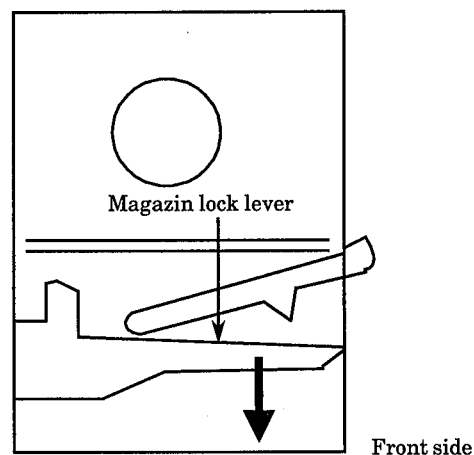


Fig 12 Mech.. Top side

(13) Elevator ass'y removal

1. Move the Elevator ass'y UP side.
2. Remove the 2 screws Ⓜ and 2 screws Ⓒ.
3. Remove the Elevator ass'y.

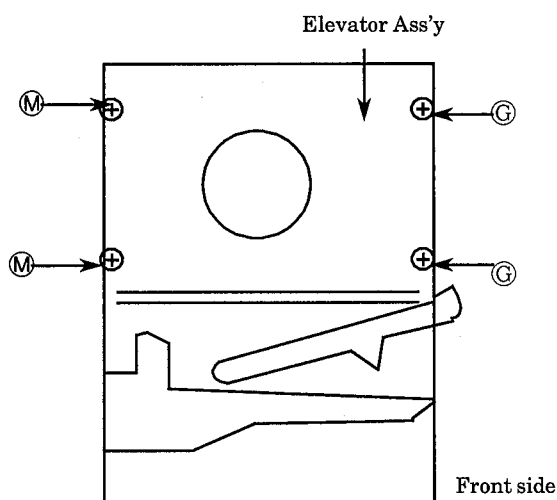


Fig 13 Mech. Up side

(14) Magazin Guide(U) removal

1. Remove the 2 screws Ⓜ and 2 screws Ⓒ.
2. Push the hook up and pull the Magazine lock lever toward front side to remove the Magazine Guide(U) from the hook. (See an arrow in the figure.)
3. Remove the Magazine Guide (B) ass'y.

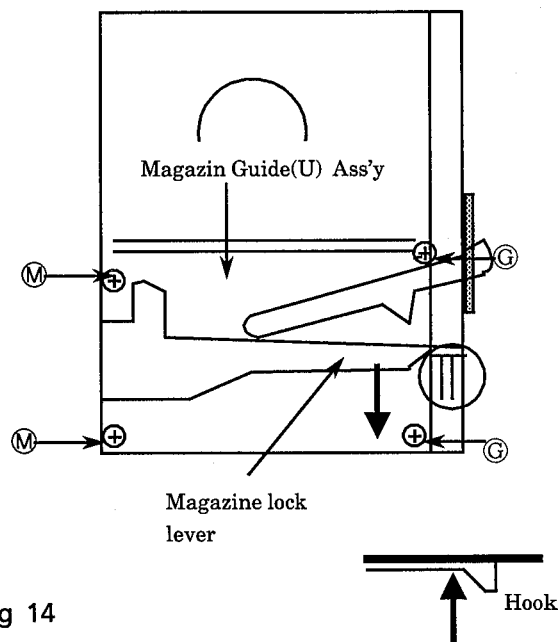


Fig 14

(15) Magazine guide(B) removal

1. Remove the Magazine Guide(U) ass'y.
2. Lifting the Magazine Guide(B) makes it release.

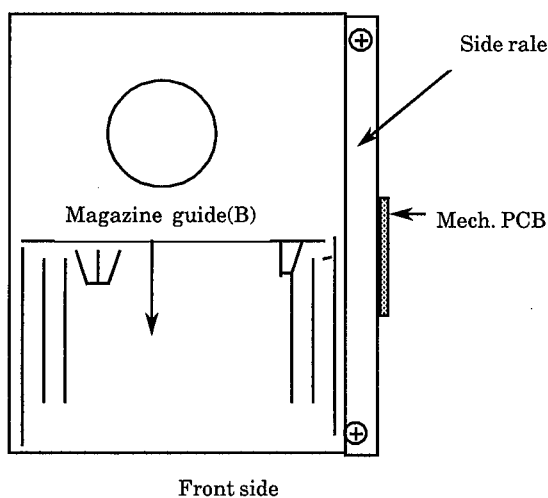


Fig 15

(16) Right side rale removal.

1. Remove the Elevator ass'y and Magazine Guide(U) ass'y.
2. Rotate gear Ⓔ to move the Cam plate to the front side.
3. Remove the Mech, PCB of the side position.
4. Remove the 4 screws Ⓒ holding the side rale and BKT. Remove the side rale.

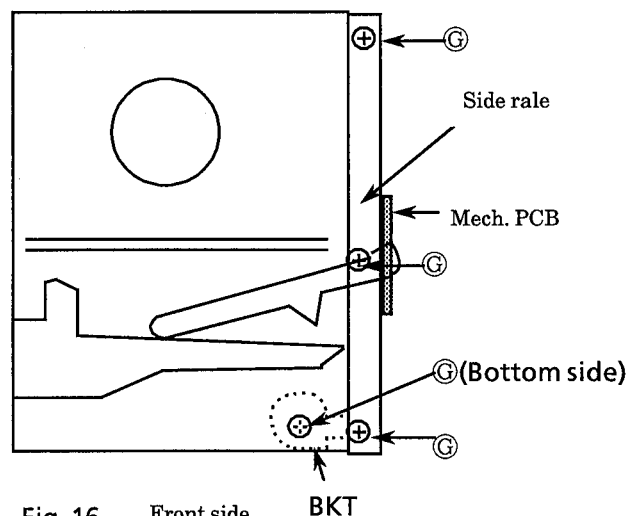


Fig 16 Front side

(17) Pickup removal

1. Remove the cd mechanism assembly.
2. Release the shaft to remove the pickup (Fig 17).

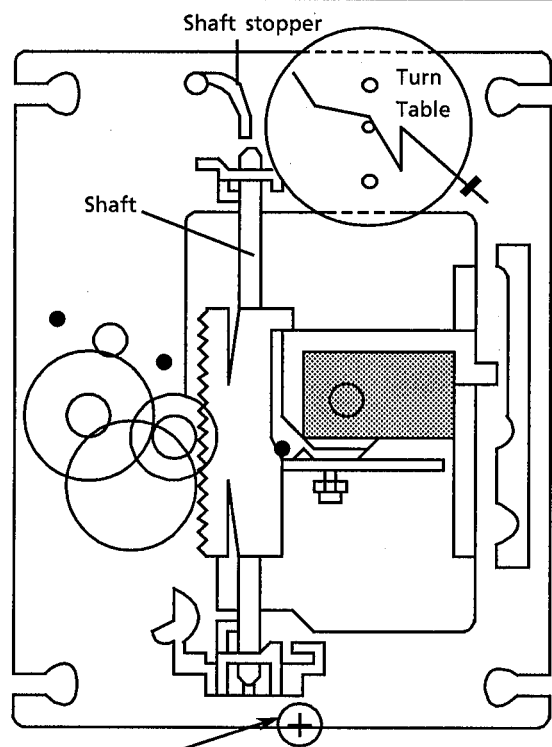


Fig 17 CD mechanism assembly

(19) Spindle motor installation

1. Tighten the 2 screws to the same torque.
2. Fasten the spindle and feed motor P.C. board with the screw and solder.
3. Install the turntable. When installing, press straight down at the center of the turntable until the distance from the surface of the mechanism base to the turntable is exactly $19.4 \pm 0.1\text{mm}$.

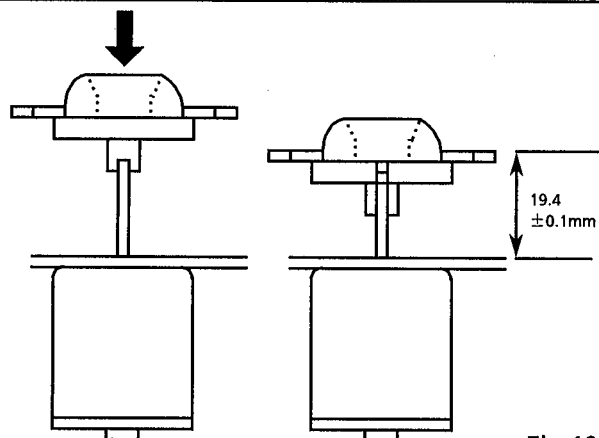


Fig 19

(18) Spindle motor removal

1. Remove the cd mechanism assembly.
2. Remove the turntable, and remove the two screws retaining the spindle motor.
3. Remove the screws retaining the spindle and feed motor P.C. Board and unsolder it.

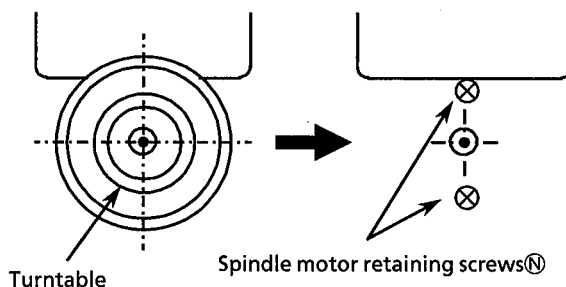


Fig 18

- (20) After inserting the turntable, bond the motor shaft and turntable together (at the section marked by an arrow in fig 20 on the left below).

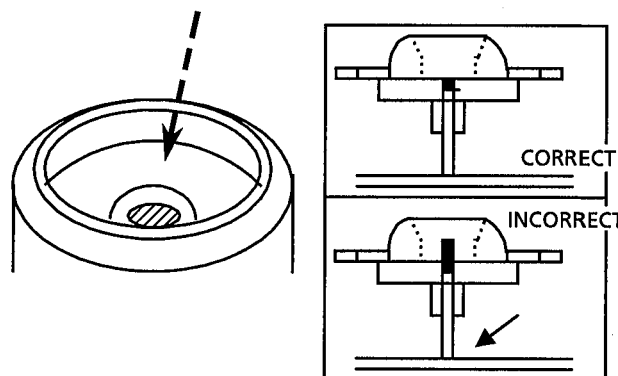
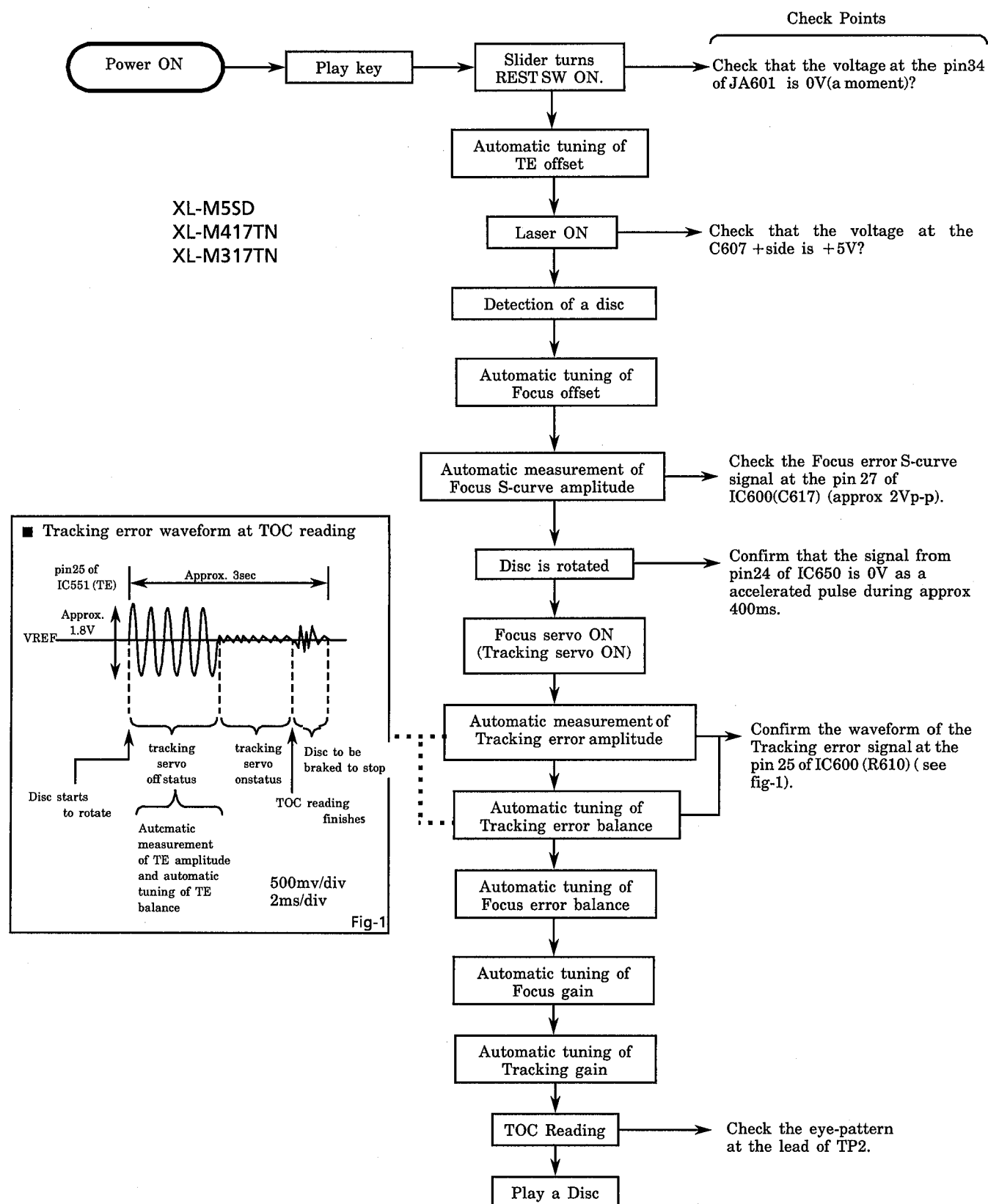


Fig 20

- (21) Use "LOKTITE" #460 bonding agent, and apply as little as possible. Take care not to allow any excess bonding agent to get onto the turntable. Be extremely careful not to allow bonding agent to adhere to the motor bearing (the section marked by an arrow in fig 20 on the right).

Flow of Functional Operation Until TOC is Read



Maintenance of Laser Pickup

(1) Cleaning the pick up lens

Before you replace the pickup, please try to clean the lens with a alcohol soaked cotton swab.

(2) Life of the laser diode

RF level (amplitude of eye pattern) is decreased when the life of laser diode is run out.

Check that the RF level is over 0.7Vp-p and under 1.2V.

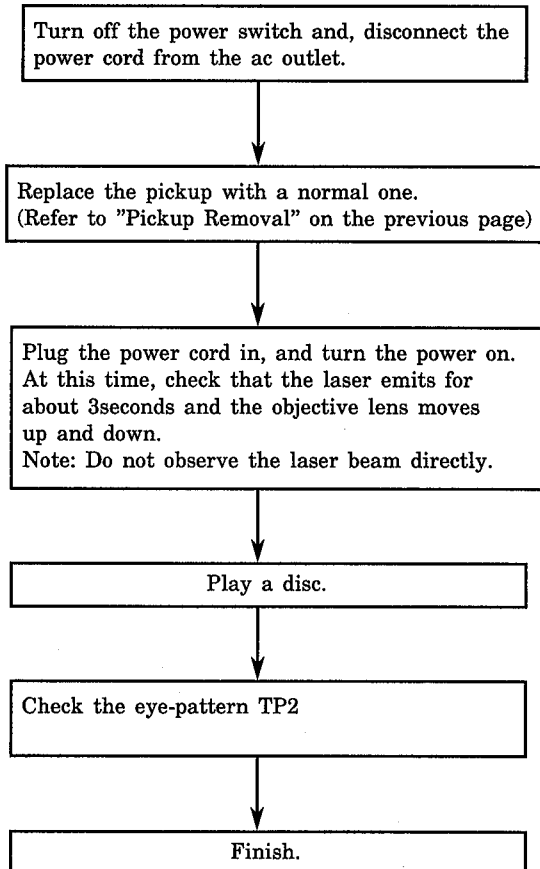
The pickup should be exchanged with new one for run out of its life if the value is 0.7Vp-p below.

(3) Semi-fixed resistor on the APC PC board

The semi-fixed resistor on the APC printed circuit board which is attached to the pickup is used to adjust the laser power. Since this adjustment should be performed to match the characteristics of the whole optical block, do not touch the semi-fixed resistor. If the laser power is lower than the specified value, the laser diode is almost worn out, and the laser pickup should be replaced.

If the semi-fixed resistor is adjusted while the pickup is functioning normally, the laser pickup may be damaged due to excessive current.

Replacement of Laser Pickup



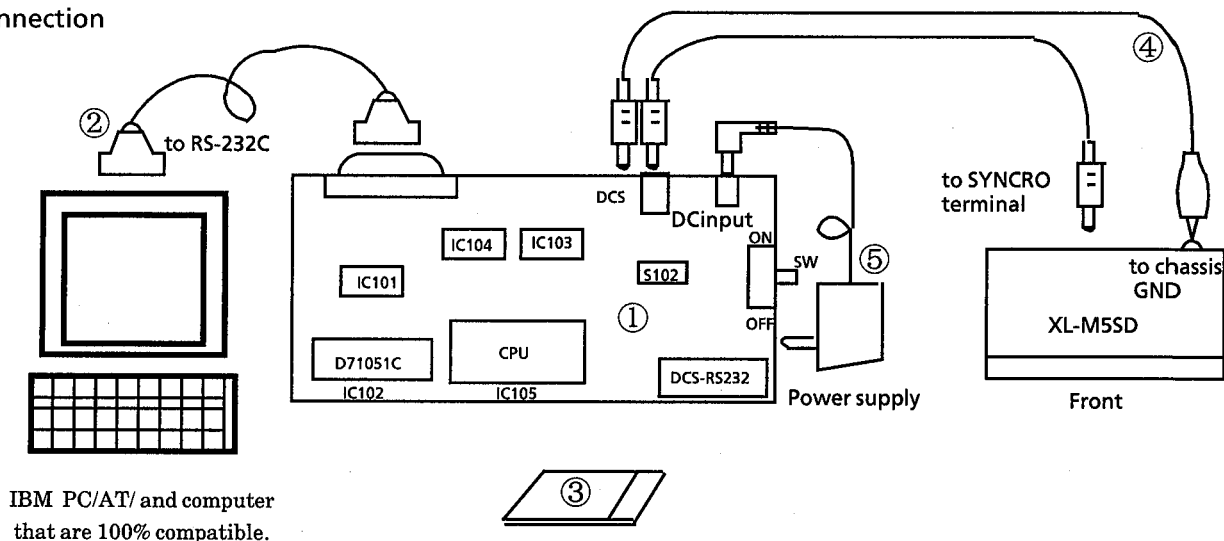
Self-diagnosis for pickup

From DCS output, this model reads automatically adjusted data for CD so that the pickup can be judged defective or not. Following shows its details.

1. Necessary items

- ① DCS → 232C Converting board(No.EBSJ1019)
- ② 232C cord (straight)
- ③ Floppy disc for self-diagnosis (No.EBSJ1021)
- ④ DCS cord
- ⑤ Power supply DC 6.3V (AA-SV11J--America/Canada) (AA-SV11Bs--the UK)
(AA-SV11G--Germany) (AA-SV11EF--Continental Europe) (AA-SV11Bs--the UK)
- ⑥ CD (without scratches or damage)

2. Connection



For this diagnosis, a device driver for RS232C cord (straight type) is necessary.

(Ex.) C:\DOS MODE COM 1: 9600, N 8 1

adapter number(1or2) band rate parity data bit stop bit

3. Procedure

- ① Turn the converting board's switch on after connecting between XL-M5SD/XL-M417TN/XL-M317TN and the above necessary items
Set S102(switching DCS positive from/to negative logic) so that LED can emit red(positive logic).
- ② Set a disc of the Magazin disc 1 and Lording it to read TOC.
Do not press the play button.
- ③ Input "AUTO 01" on personal computer's keyboard and the CD's automatic adjustment value and judgment for the pickup are displayed on the screen.

4. Judgment

To judge whether pickup is defective or not, firstly process of automatic adjustment is checked by automatic adjustment flag. And, the value(automatic adjustment value for focus gain) displayed on the screen is used for its final judgment.

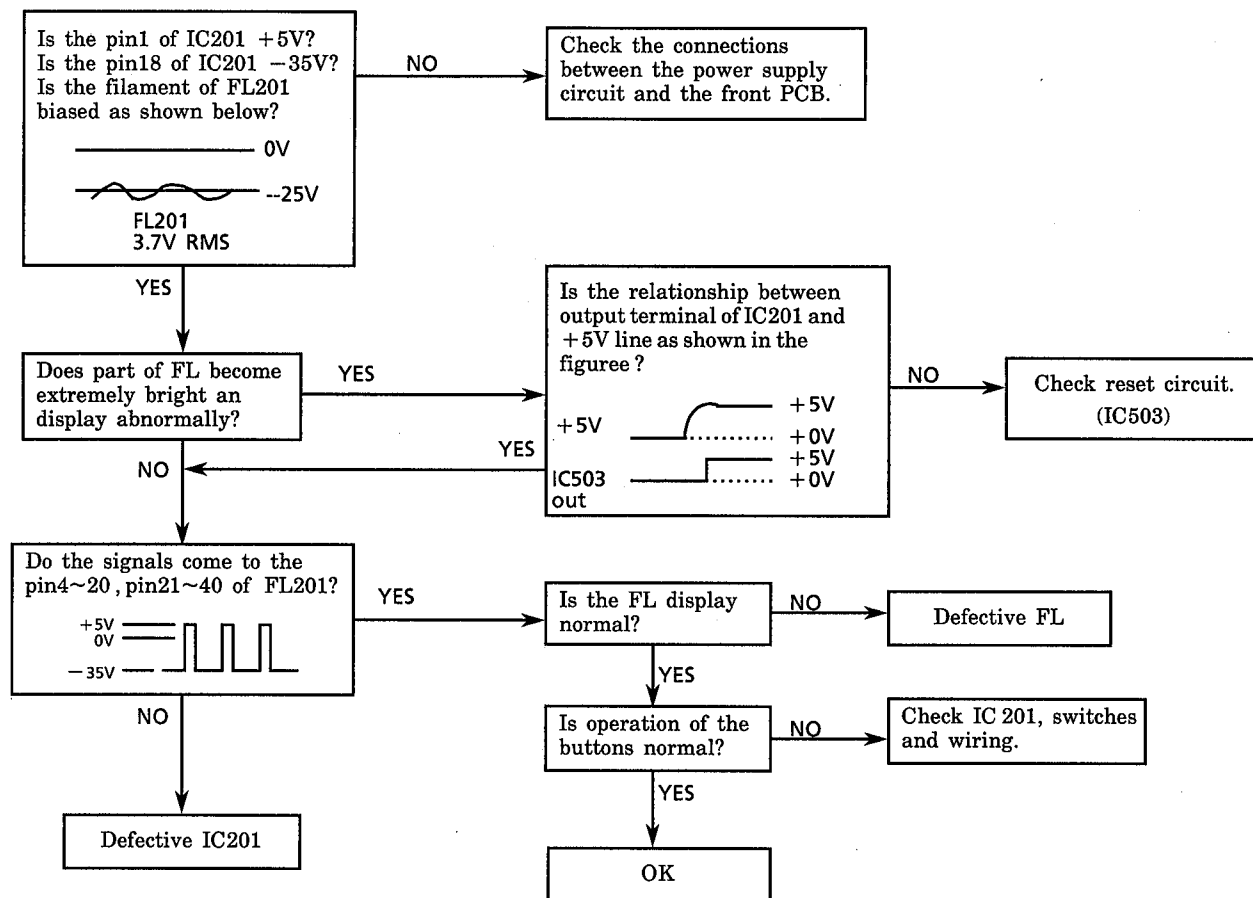
It is supposed that the pickup is defective or the signal path is faulty if the Flag1 or Flag0 indicates not "F" but a figure.

(See the following example.)

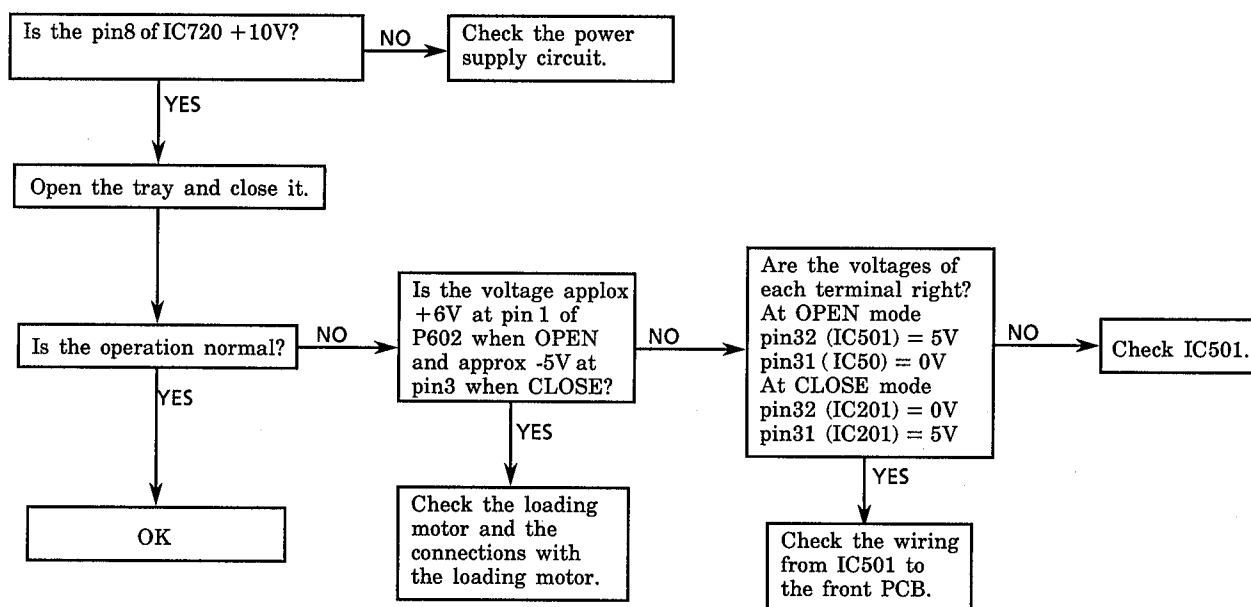
Flag1	Flag0	Details	Supposed cause
0	0	Automatic adjustment for tracking offset is failed.	The automatic adjustment is not completed. (Trouble in circuit.)
0	1	Automatic adjustment for focus offset is failed. (Disc does not rotate.)	The lens does not move. (Power supply is not turned on. Wire is cut.)
0	3	Automatic rough adjustment for focus gain is failed.	
0	7	Automatic rough adjustment for tracking gain is failed. (The focus and tracking gain are not locked though the disc rotates.)	Laser deterioration (low RF signal output). Offset beam.
0	F	Disc rotates, focus and tracking gain are locked and automatic rough adjustment for tracking gain is also completed though automatic adjustment for tracking balance is failed.	Laser deterioration (low RF signal output). Offset beam.
1	F	Automatic adjustment for focus balance is failed. (TOC is not read though the disc rotates.)	RF signal output is low. Tracking loop is not turned on. RF jitter is too much.
3	F	Automatic rough adjustment for focus gain is failed.	
7	F	Automatic rough adjustment for tracking gain is failed.	
F	F	All automatic adjustments are completed.	

The pickup is judged defective though the Flag0 and Flag1 indicate "F" and those adjustments are completed if the adjustment value exceeds 19dB.

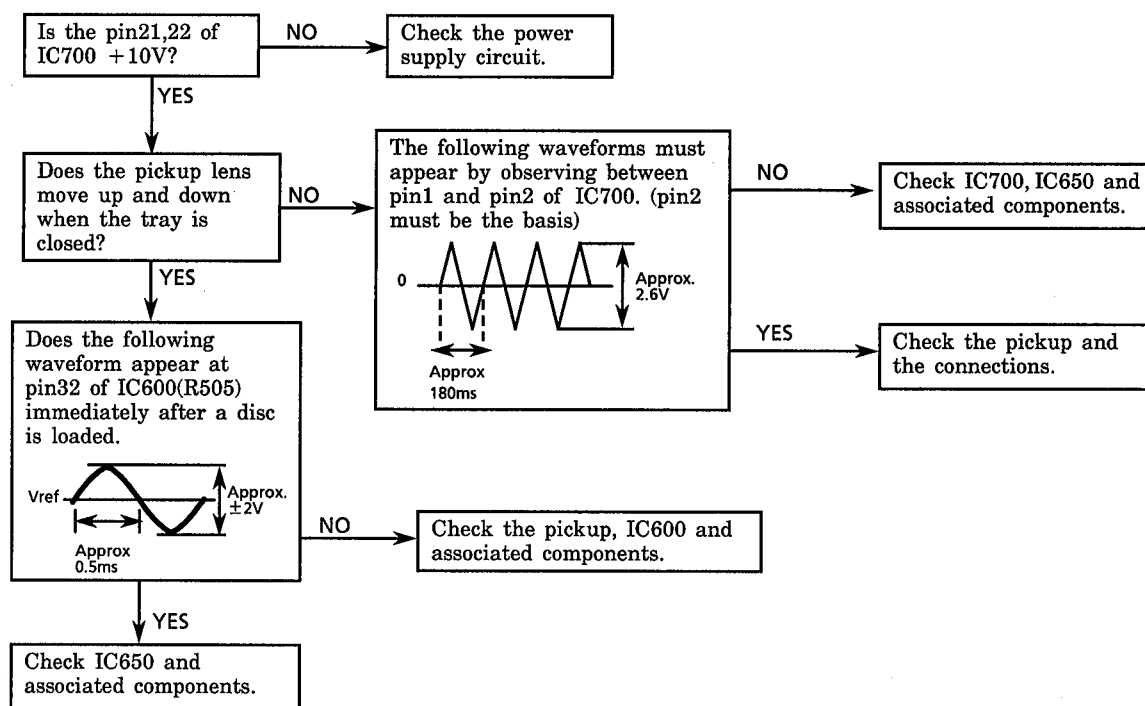
Front Section



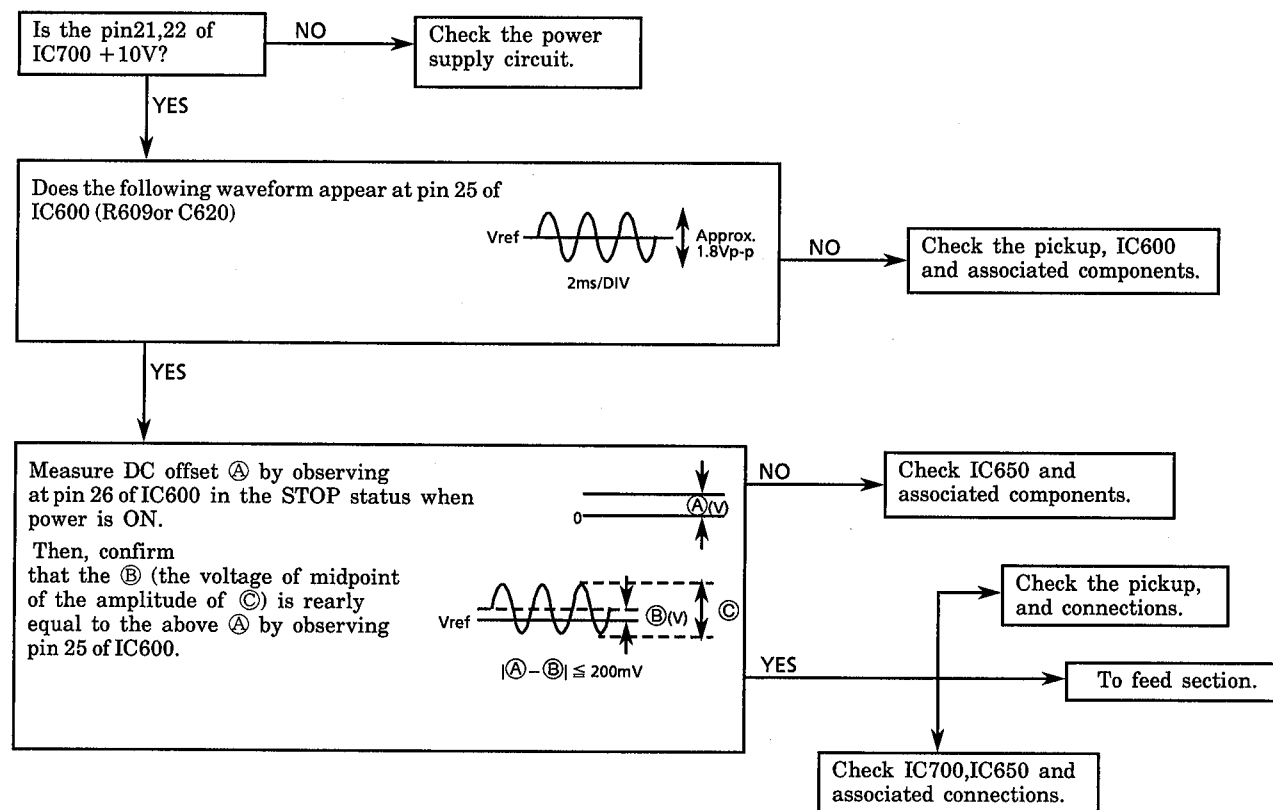
Loading section



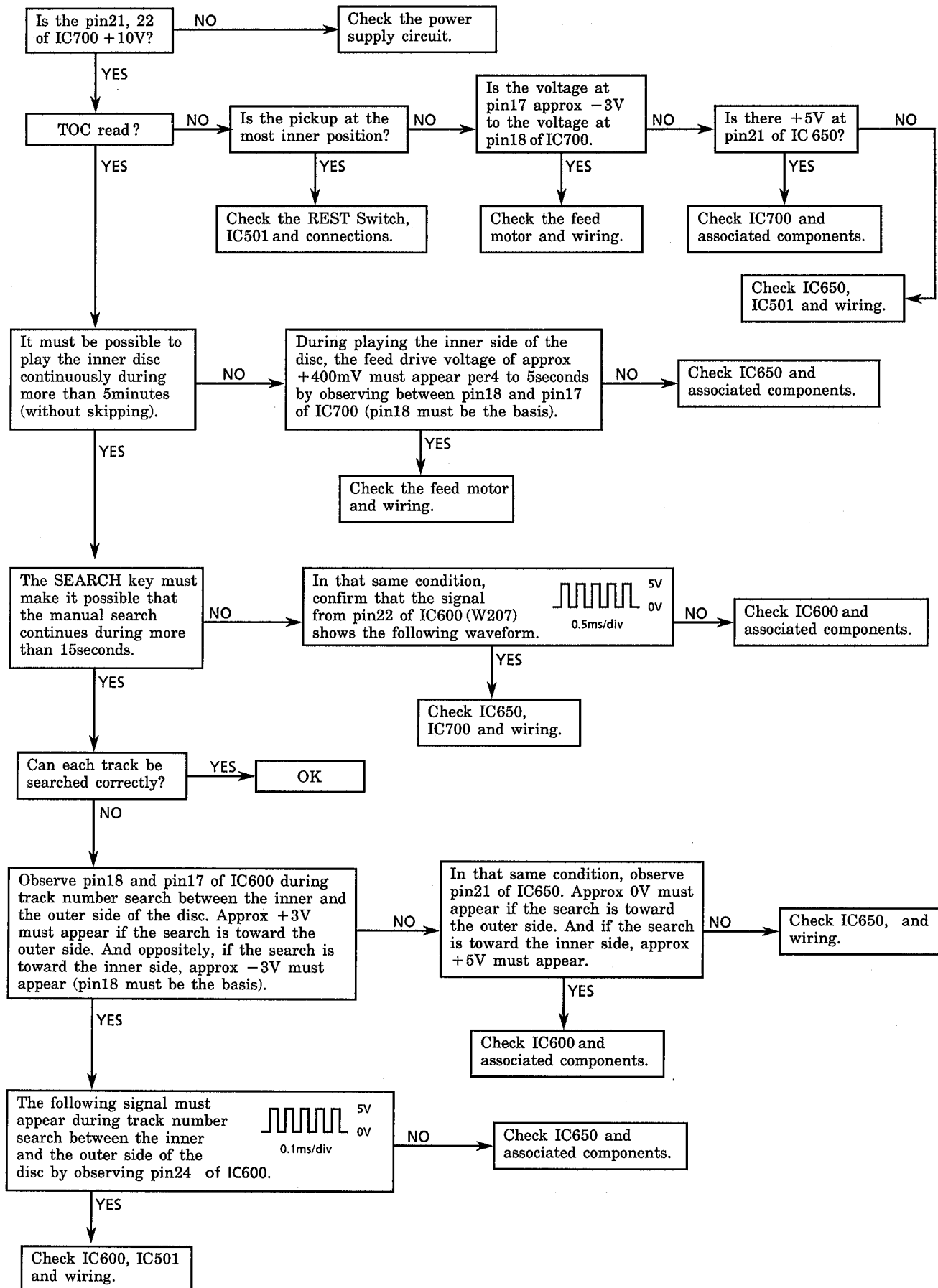
Focus section



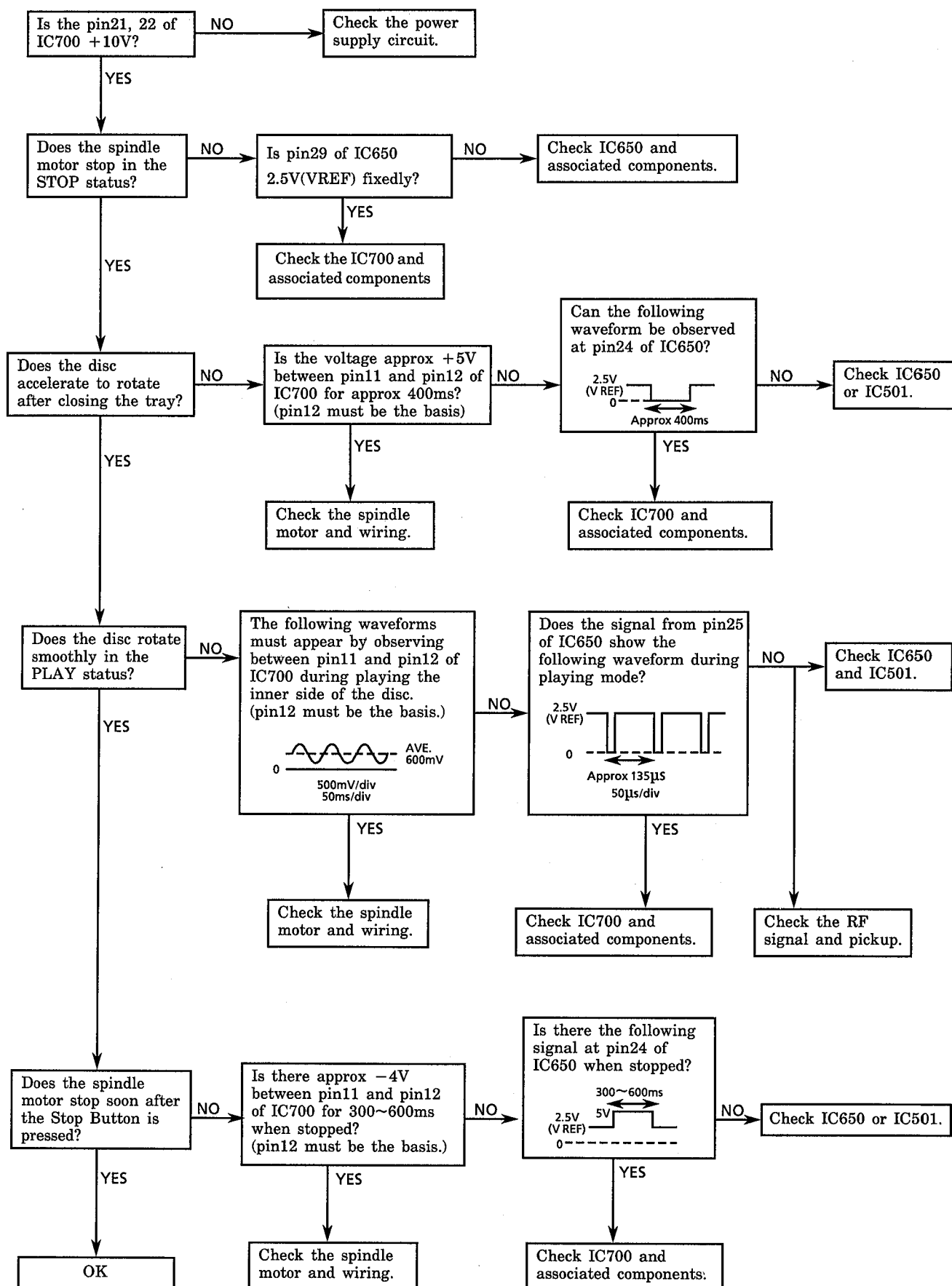
Tracking section



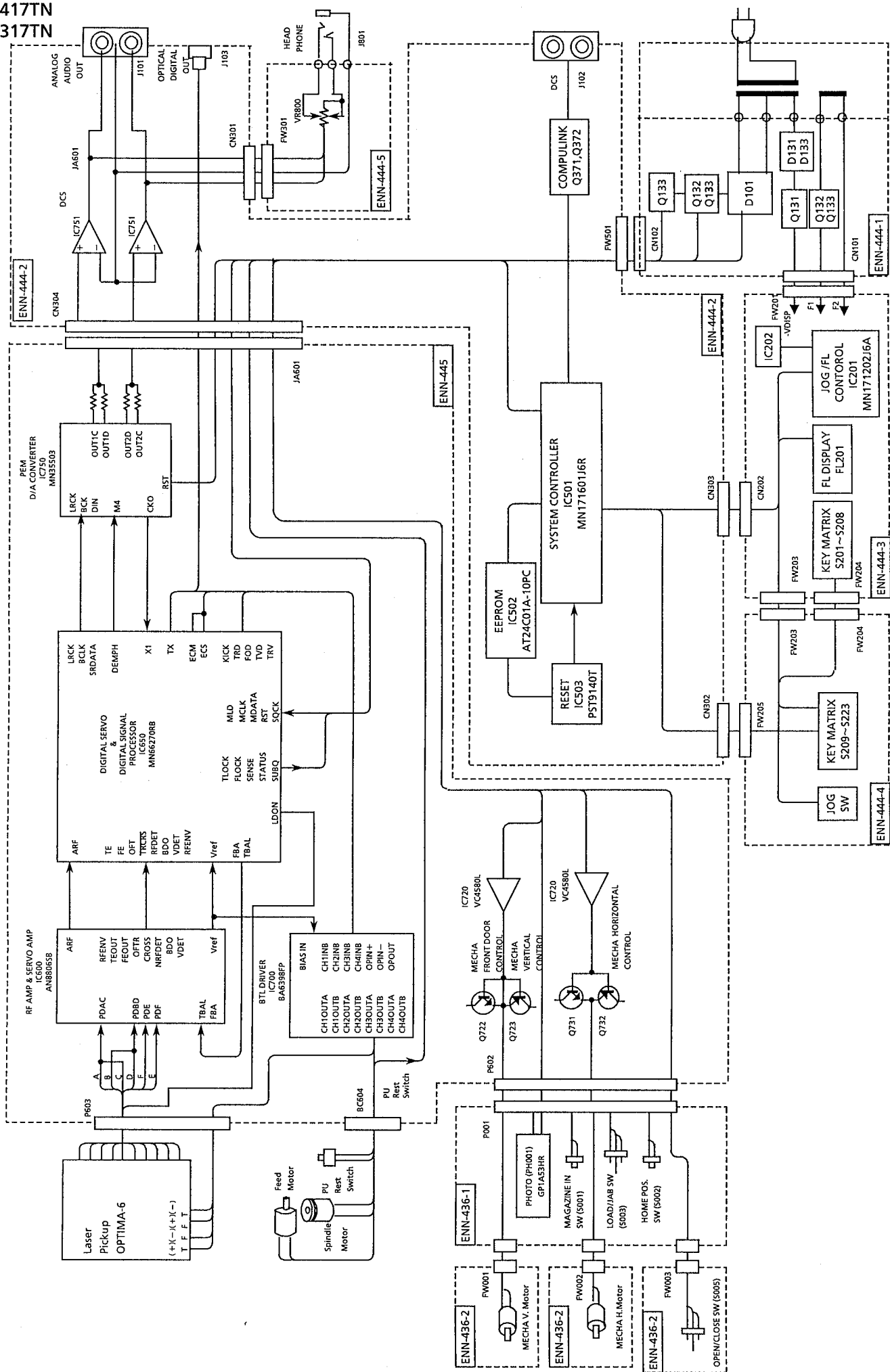
Feed section



Spindle section

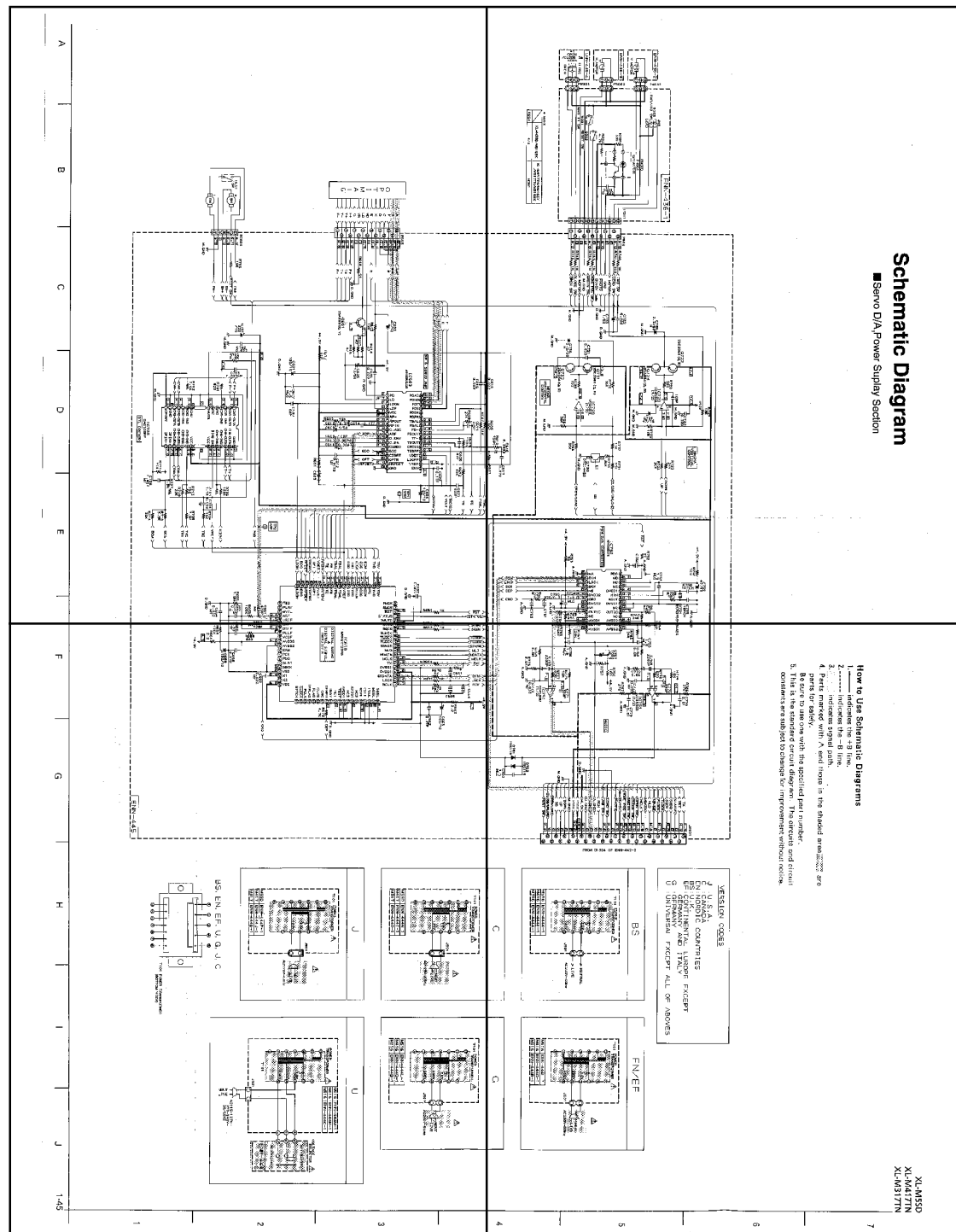


Block Diagram



P1-45-a

P1-45-b



P1-45-c

P1-45-d

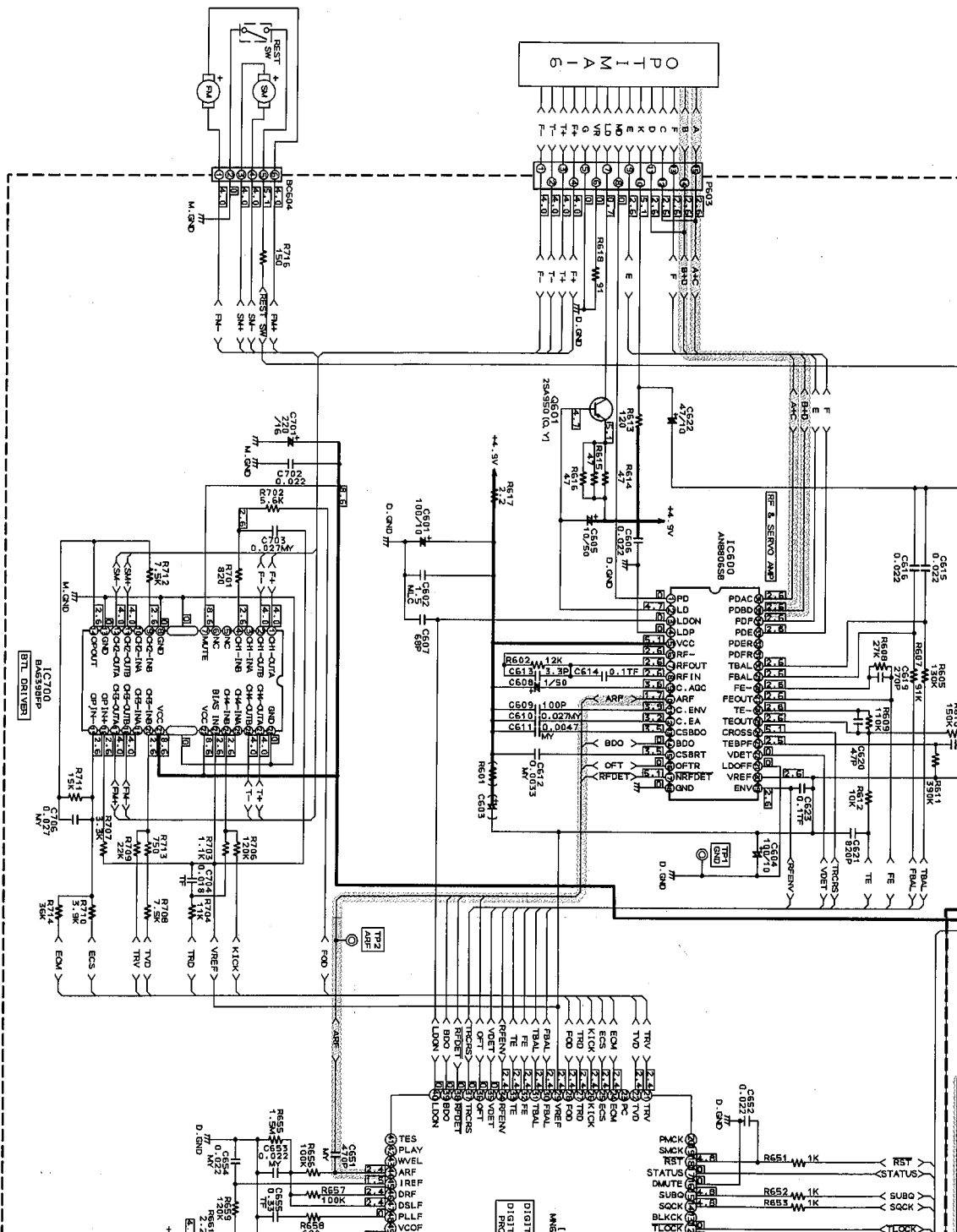
A

B

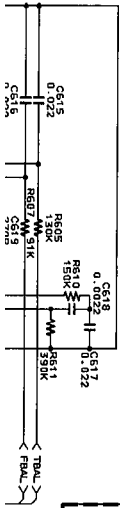
C

D

E



■ Servo D/A, Power Supplay Section



7

- 9



4

Сборочный чертёж
Деталь

1. 2. 3. 4. 5. 6. 7. 8. 9. 10. 11. 12. 13. 14. 15. 16. 17. 18. 19. 20. 21. 22. 23. 24. 25. 26. 27. 28. 29. 30. 31. 32. 33. 34. 35. 36. 37. 38. 39. 40. 41. 42. 43. 44. 45. 46. 47. 48. 49. 50. 51. 52. 53. 54. 55. 56. 57. 58. 59. 60. 61. 62. 63. 64. 65. 66. 67. 68. 69. 70. 71. 72. 73. 74. 75. 76. 77. 78. 79. 80. 81. 82. 83. 84. 85. 86. 87. 88. 89. 90. 91. 92. 93. 94. 95. 96. 97. 98. 99. 100. 101. 102. 103. 104. 105. 106. 107. 108. 109. 110. 111. 112. 113. 114. 115. 116. 117. 118. 119. 120. 121. 122. 123. 124. 125. 126. 127. 128. 129. 130. 131. 132. 133. 134. 135. 136. 137. 138. 139. 140. 141. 142. 143. 144. 145. 146. 147. 148. 149. 150. 151. 152. 153. 154. 155. 156. 157. 158. 159. 160. 161. 162. 163. 164. 165. 166. 167. 168. 169. 170. 171. 172. 173. 174. 175. 176. 177. 178. 179. 180. 181. 182. 183. 184. 185. 186. 187. 188. 189. 190. 191. 192. 193. 194. 195. 196. 197. 198. 199. 200. 201. 202. 203. 204. 205. 206. 207. 208. 209. 210. 211. 212. 213. 214. 215. 216. 217. 218. 219. 220. 221. 222. 223. 224. 225. 226. 227. 228. 229. 230. 231. 232. 233. 234. 235. 236. 237. 238. 239. 240. 241. 242. 243. 244. 245. 246. 247. 248. 249. 250. 251. 252. 253. 254. 255. 256. 257. 258. 259. 260. 261. 262. 263. 264. 265. 266. 267. 268. 269. 270. 271. 272. 273. 274. 275. 276. 277. 278. 279. 280. 281. 282. 283. 284. 285. 286. 287. 288. 289. 290. 291. 292. 293. 294. 295. 296. 297. 298. 299. 300. 301. 302. 303. 304. 305. 306. 307. 308. 309. 310. 311. 312. 313. 314. 315. 316. 317. 318. 319. 320. 321. 322. 323. 324. 325. 326. 327. 328. 329. 330. 331. 332. 333. 334. 335. 336. 337. 338. 339. 340. 341. 342. 343. 344. 345. 346. 347. 348. 349. 350. 351. 352. 353. 354. 355. 356. 357. 358. 359. 360. 361. 362. 363. 364. 365. 366. 367. 368. 369. 370. 371. 372. 373. 374. 375. 376. 377. 378. 379. 380. 381. 382. 383. 384. 385. 386. 387. 388. 389. 390. 391. 392. 393. 394. 395. 396. 397. 398. 399. 400. 401. 402. 403. 404. 405. 406. 407. 408. 409. 410. 411. 412. 413. 414. 415. 416. 417. 418. 419. 420. 421. 422. 423. 424. 425. 426. 427. 428. 429. 430. 431. 432. 433. 434. 435. 436. 437. 438. 439. 440. 441. 442. 443. 444. 445. 446. 447. 448. 449. 450. 451. 452. 453. 454. 455. 456. 457. 458. 459. 460. 461. 462. 463. 464. 465. 466. 467. 468. 469. 470. 471. 472. 473. 474. 475. 476. 477. 478. 479. 480. 481. 482. 483. 484. 485. 486. 487. 488. 489. 490. 491. 492. 493. 494. 495. 496. 497. 498. 499. 500. 501. 502. 503. 504. 505. 506. 507. 508. 509. 510. 511. 512. 513. 514. 515. 516. 517. 518. 519. 520. 521. 522. 523. 524. 525. 526. 527. 528. 529. 530. 531. 532. 533. 534. 535. 536. 537. 538. 539. 540. 541. 542. 543. 544. 545. 546. 547. 548. 549. 550. 551. 552. 553. 554. 555. 556. 557. 558. 559. 560. 561. 562. 563. 564. 565. 566. 567. 568. 569. 570. 571. 572. 573. 574. 575. 576. 577. 578. 579. 580. 581. 582. 583. 584. 585. 586. 587. 588. 589. 590. 591. 592. 593. 594. 595. 596. 597. 598. 599. 600. 601. 602. 603. 604. 605. 606. 607. 608. 609. 610. 611. 612. 613. 614. 615. 616. 617. 618. 619. 620. 621. 622. 623. 624. 625. 626. 627. 628. 629. 630. 631. 632. 633. 634. 635. 636. 637. 638. 639. 640. 641. 642. 643. 644. 645. 646. 647. 648. 649. 650. 651. 652. 653. 654. 655. 656. 657. 658. 659. 660. 661. 662. 663. 664. 665. 666. 667. 668. 669. 670. 671. 672. 673. 674. 675. 676. 677. 678. 679. 680. 681. 682. 683. 684. 685. 686. 687. 688. 689. 690. 691. 692. 693. 694. 695. 696. 697. 698. 699. 700. 701. 702. 703. 704. 705. 706. 707. 708. 709. 710. 711. 712. 713. 714. 715. 716. 717. 718. 719. 720. 721. 722. 723. 724. 725. 726. 727. 728. 729. 730. 731. 732. 733. 734. 735. 736. 737. 738. 739. 740. 741. 742. 743. 744. 745. 746. 747. 748. 749. 750. 751. 752. 753. 754. 755. 756. 757. 758. 759. 760. 761. 762. 763. 764. 765. 766. 767. 768. 769. 770. 771. 772. 773. 774. 775. 776. 777. 778. 779. 780. 781. 782. 783. 784. 785. 786. 787. 788. 789. 790. 791. 792. 793. 794. 795. 796. 797. 798. 799. 800. 801. 802. 803. 804. 805. 806. 807. 808. 809. 810. 811. 812. 813. 814. 815. 816.

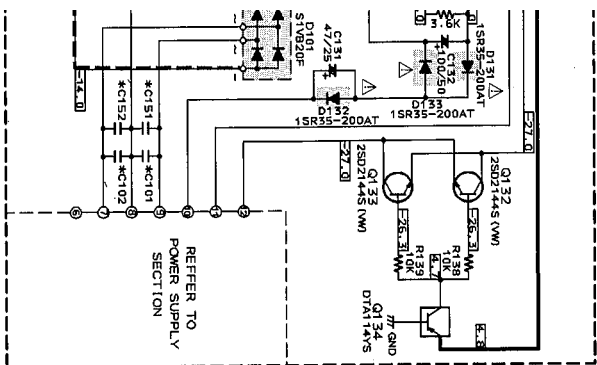
XL4475D
XL4477N
XL4477N

■ Front/Power Supply/Audio Out Pul Section

5

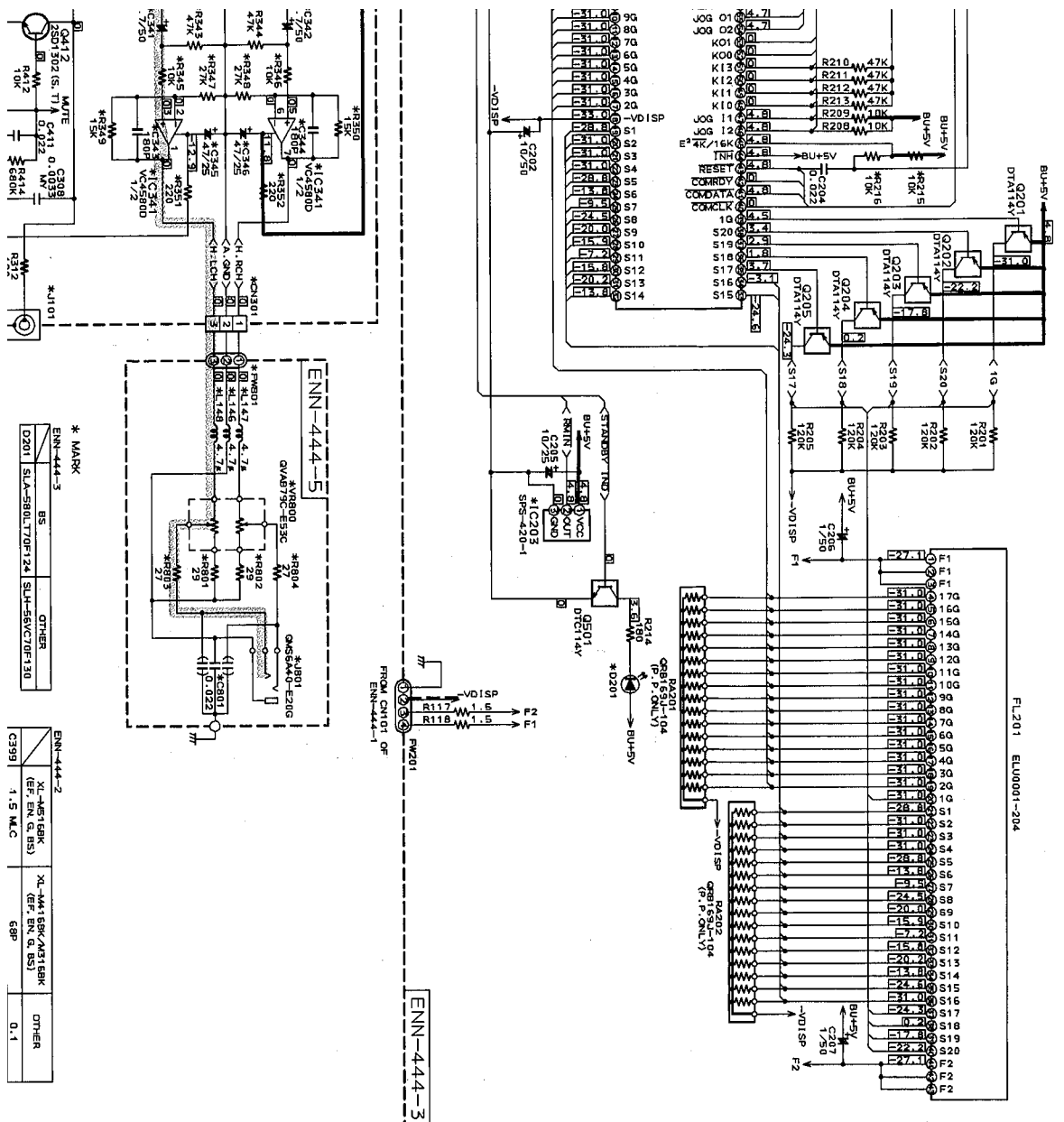
6

7



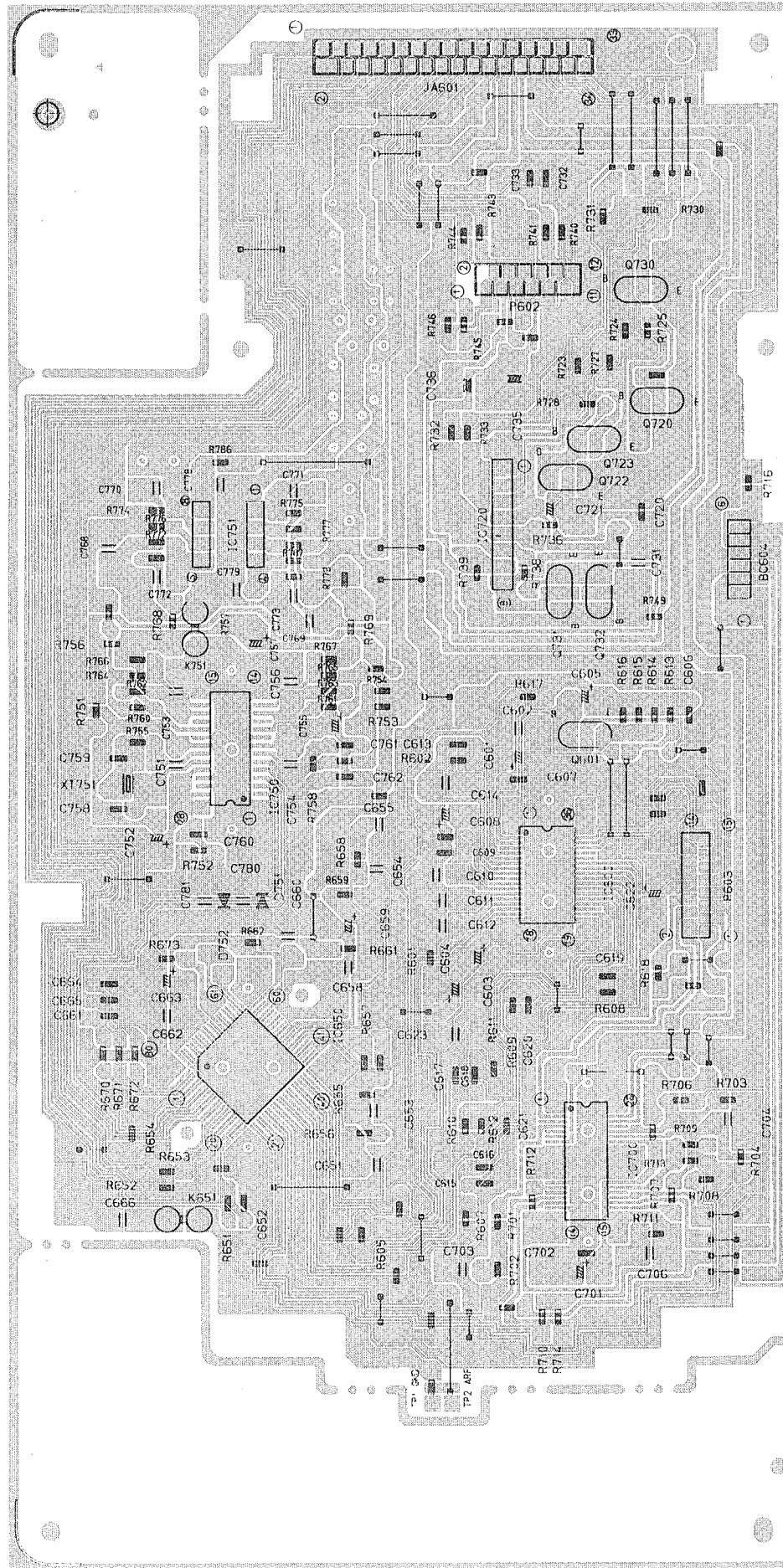
| ENV-444-5 | XL-MESO/MS1.6BK | OTHER |
|-----------|-----------------|-------|
| J801 | QMSAA0-E208 | NONE |
| V800 | QVAB79C-E53C | NONE |
| R801, 802 | 39 | NONE |
| R803, 804 | 27 | NONE |
| C801 | 0.022 | NONE |
| PW801 | EW830B-08LST | NONE |

| | | |
|----------|------------------------------|---------------------|
| | XL-AS16BK
(EF, EN, G, BS) | OTHER |
| L146~148 | 4.7A | SHORT
(W146~148) |

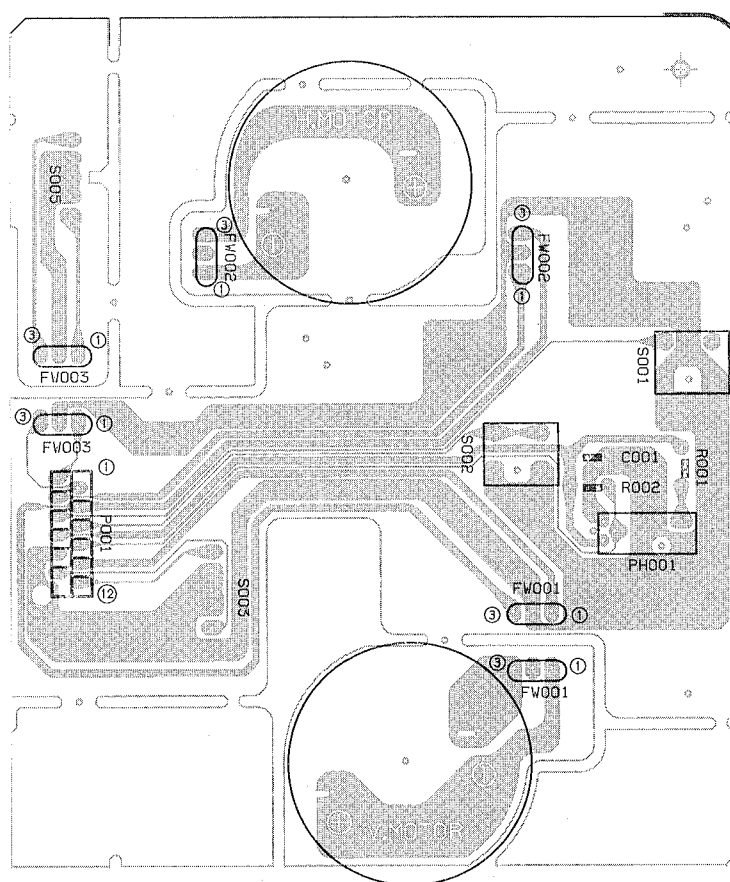


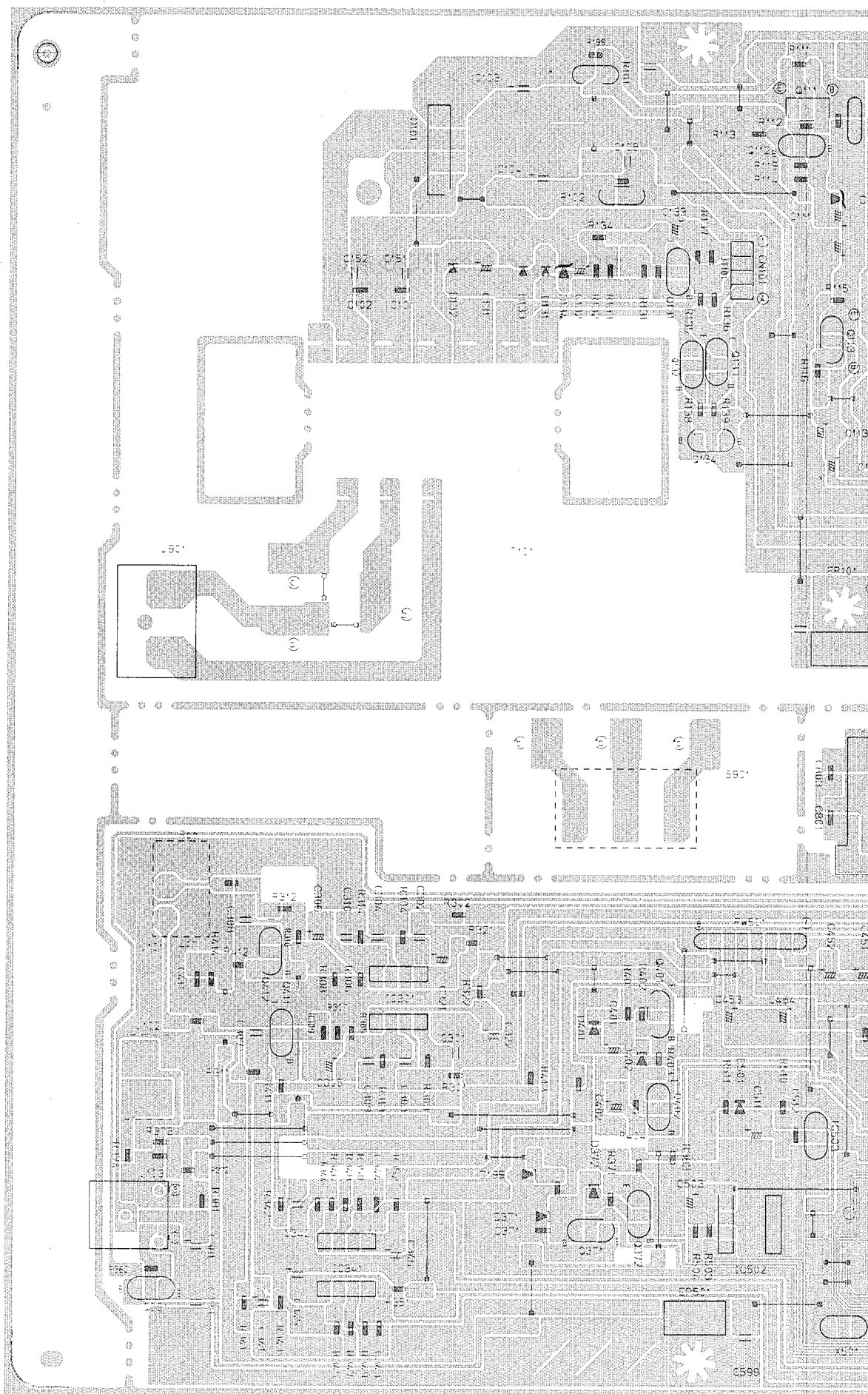
Printed Circuit Board

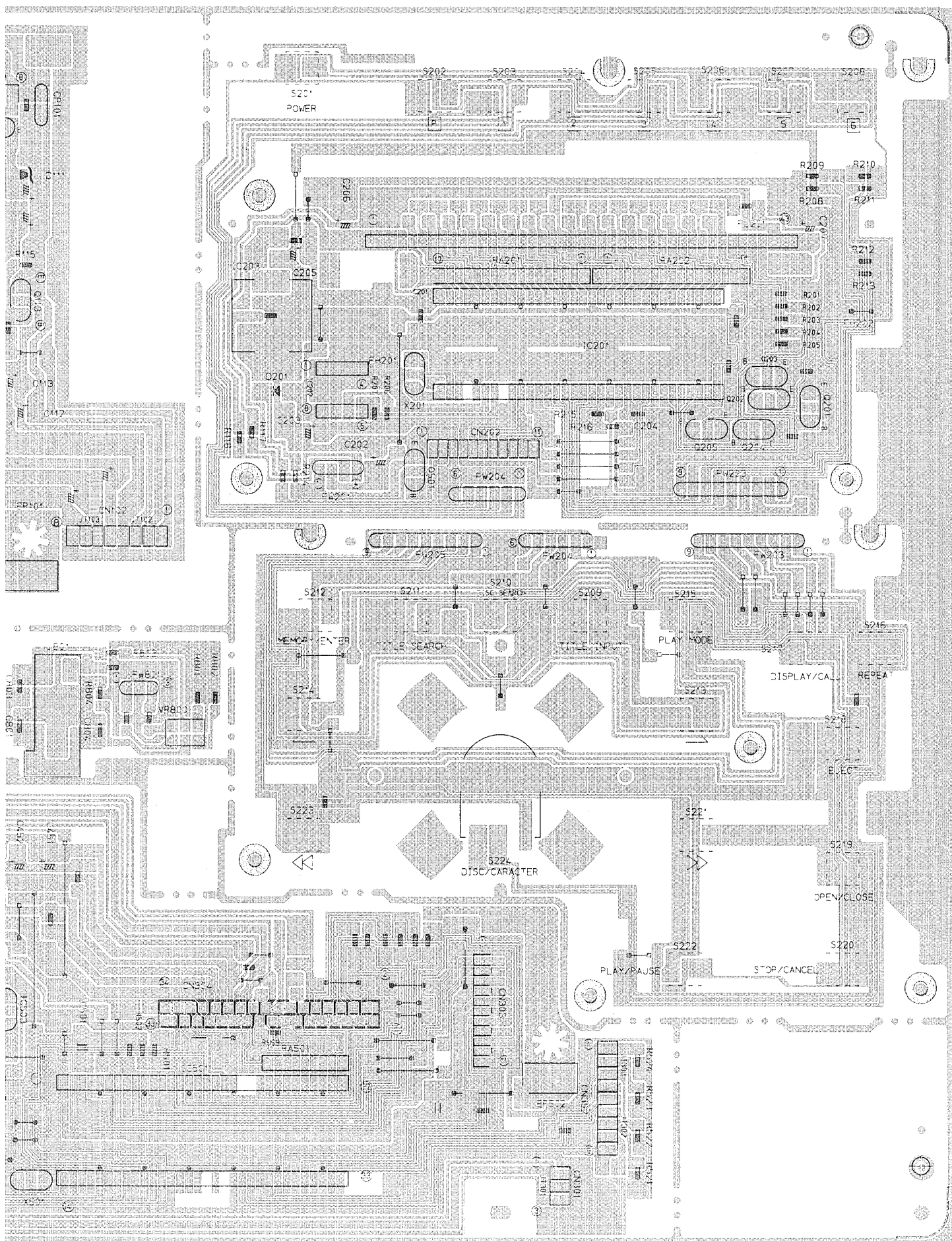
■Front P,C,Board Assembly(ENN-455)



■ Changer Mech P,C,Board (ENN-436)







PARTS LIST

Note : All printed circuit boards assemblies are not available as service parts.

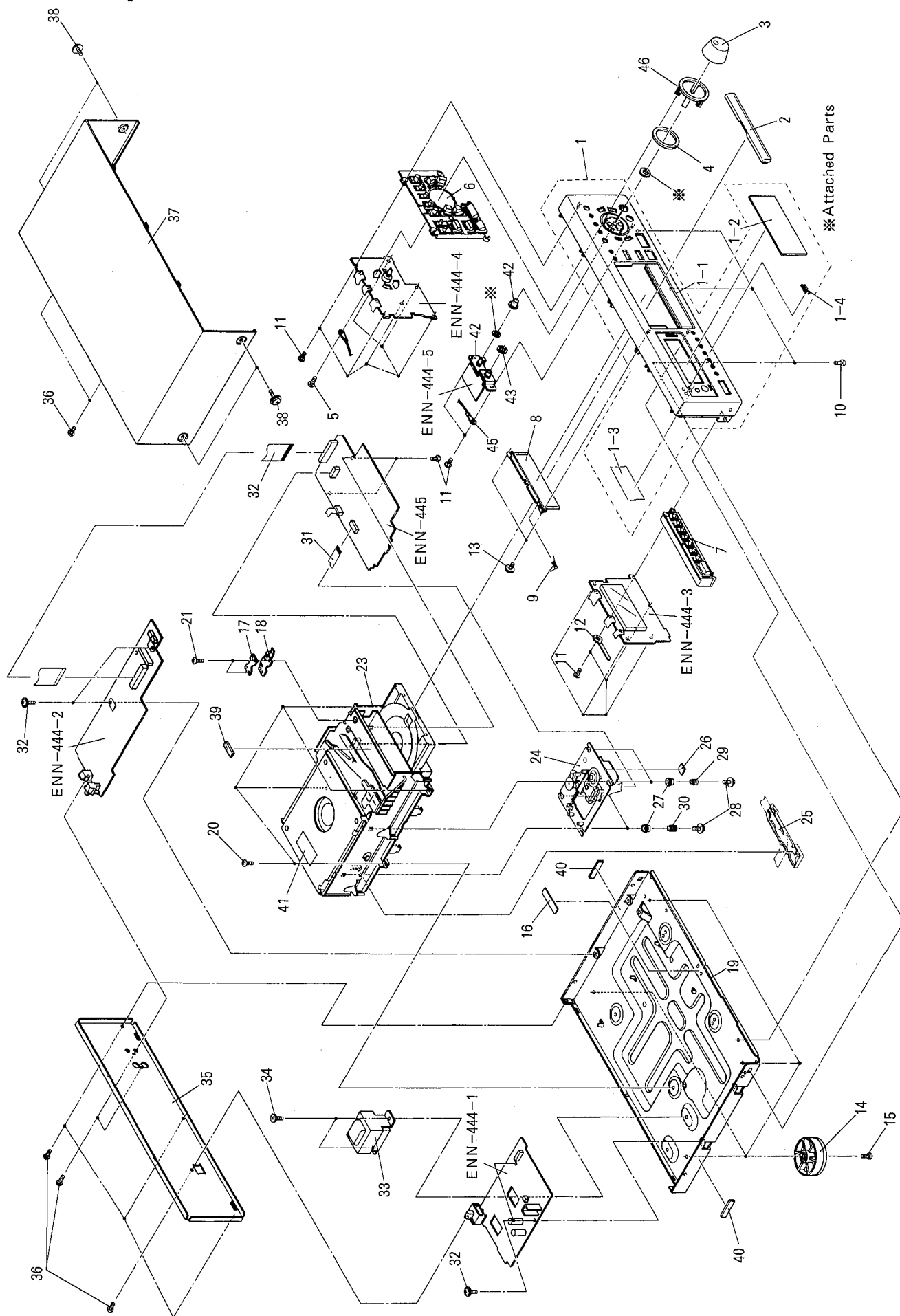
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General Exploded View and Parts List

Symbol No.

| | | | |
|---|---|---|---|
| M | 1 | M | M |
|---|---|---|---|



■ PARTS LIST

Symbol No.

| | | | |
|---|---|---|---|
| M | 1 | M | M |
|---|---|---|---|

| ⚠ | Item | Part Number | Part Name | Q'ty | Description | Area |
|---|------|----------------|--------------------------|------|--------------------|------|
| | 1 | EFP-XLM5SDJ(S) | FRONT PANEL ASS | 1 | | |
| | 1-1 | E103004-014SM | FRONT PANEL | 1 | | |
| | 1-2 | E309347-002 | WINDOW SCREEN | 1 | | |
| | 1-3 | E408594-001SM | FLOURESCENT DISPL.SCREEN | 1 | | |
| | 1-4 | VJD5429-001 | JVC MARK | 1 | | |
| | 2 | E309345-003SM | C.D FITTING | 1 | | |
| | 3 | E309339-001SM | SELECT KNOB | 1 | | |
| | 4 | E408778-002SM | SPACER | 1 | | |
| | 5 | SBSG2006Z | TAPPING SCREW | 1 | | |
| | 6 | E208468-001SM | PUSH BUTTON | 1 | PLAY/PAUSE | |
| | 7 | E208466-003SM | POWER BUTTON | 1 | | |
| | 8 | E309343-001SM | LID PLATE | 1 | | |
| | 9 | E73534-001 | SPRING | 1 | | |
| | 10 | SDSG3006M | TAPPING SCREW | 3 | | |
| | 11 | SDSF2608Z | SCREW | 15 | | |
| | 12 | E407469-001SS | WIRE CLAMP | 1 | | |
| | 13 | E72405-001 | SPECIAL SCREW | 2 | | |
| | 14 | FSYH4001-00F | FOOT | 4 | | |
| | 15 | SBST3008Z | TAPPING SCREW | 4 | | |
| | 16 | E306805-134 | SPACER | 1 | CHASSIS BASE | |
| | 17 | E408823-001SM | SUPPORT BRACKET | 1 | | |
| | 18 | E309520-001 | LEAF SPRING | 1 | | |
| | 19 | E103006-001SM | CHASSIS BASE | 1 | | |
| | 20 | SBSG3008Z | TAPPING SCREW | 4 | | |
| | 21 | SBSF3008Z | TAPPING SCREW | 2 | | |
| | 22 | VWF1234-16TTB | FFC CABLE | 1 | | |
| | 23 | ----- | CD-CH MECHA | 1 | SEE PAGE 2-4 | |
| | 24 | ----- | CD MECH | 1 | SEE PAGE 2-6 | |
| | 25 | E308181-221SS | FFC HOLDER | 1 | | |
| | 26 | E306805-163 | SPACER | 1 | CD MECH P.C.B | |
| | 27 | E407153-001 | INSULATOR | 4 | | |
| | 28 | E408361-001 | SCREW | 4 | | |
| | 29 | E408373-001 | SPRING(BLACK) | 2 | | |
| | 30 | E408373-002 | SPRING | 2 | | |
| | 31 | VWF1015-16PPA | FFC CABLE | 1 | | |
| ⚠ | 32 | GBSG3008CC | TAPPING SCREW | 4 | | |
| | 33 | ETP1000-86JAJ | POWER TRANSFORMER | 1 | | |
| | 34 | E65389-004 | SPECIAL SCREW | 2 | POWER TRANSFORMER | |
| | 35 | E208470-009SM | REAR PANEL | 1 | | J |
| | 35 | E208470-010SM | REAR PANEL | 1 | | C |
| | 36 | E73273-006 | SPECIAL SCREW | 9 | | |
| | 37 | E206967-007 | METAL COVER | 1 | | |
| | 38 | E406308-001 | SPECIAL SCREW | 4 | | |
| | 39 | E306805-161 | SPACER | 1 | CH MECHA TOP FRONT | |
| | 40 | E306805-153 | SPACER | 2 | CHASSIS BASE | |
| | 41 | E406507-001 | CAUTION LABEL | 1 | | C |
| | 42 | E309097-007SS | VOLUME KNOB | 1 | HEADPHONE | |
| | 43 | VKZ4150-001 | NUT | 1 | | |
| | 44 | E408593-002SM | HEADPHONE BRACKET | 1 | | |
| | 45 | EWpz01-007 | TERMINAL WIRE | 1 | | |
| | 46 | E309340-002 | KNOB ESCUTCHEON | 1 | | |
| | - | E307570-001 | NUMBER LABEL | 1 | | J |

The Marks for Designated Areas

J the U.S.A.

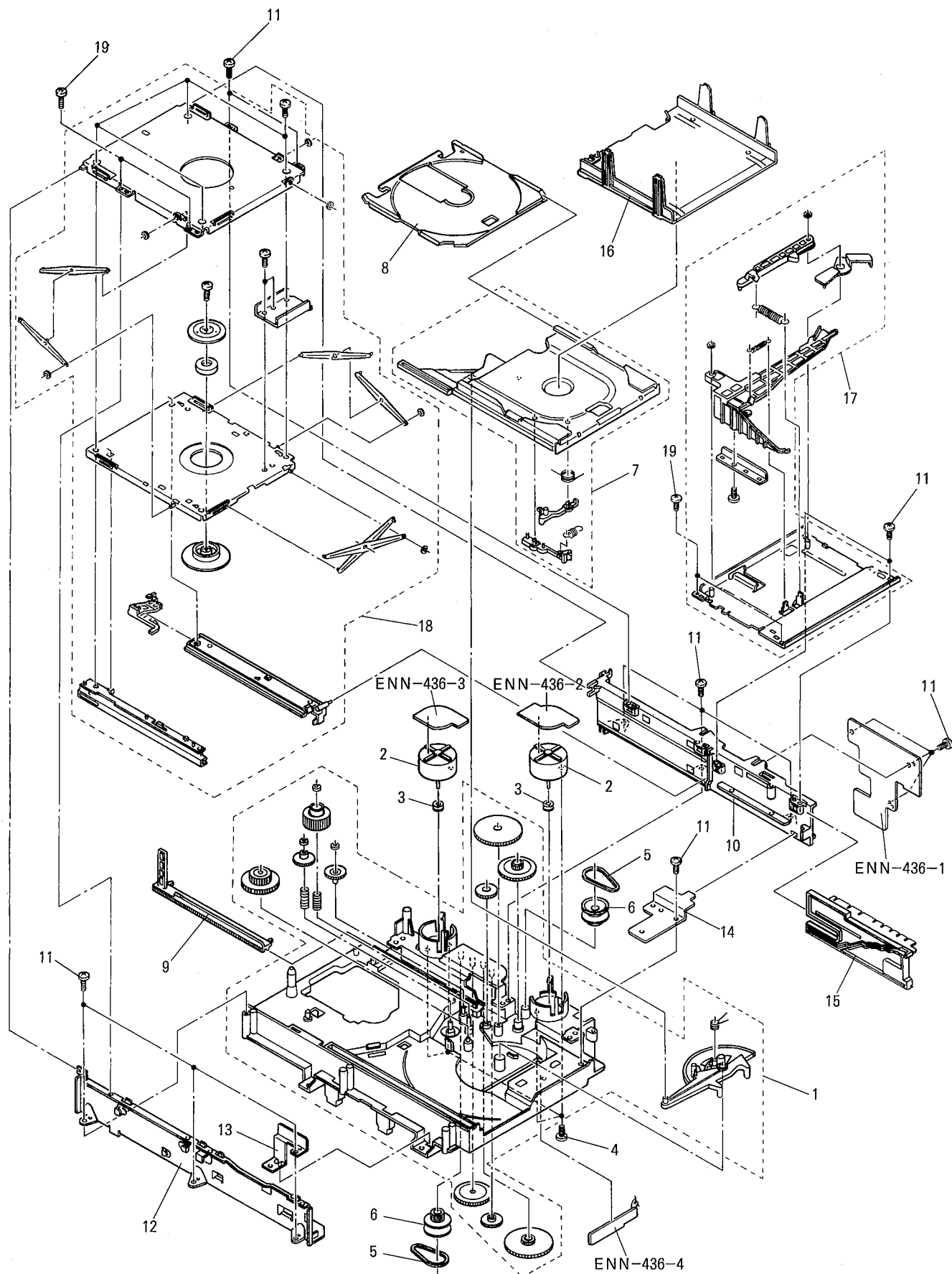
C Canada

No mark indicates all area.

CD Changer Mechanism Ass'y and Parts List

Symbol No.

| | | | |
|---|---|---|---|
| M | 2 | M | M |
|---|---|---|---|



■ PARTS LIST(Changer Mechanism)

Symbol No.

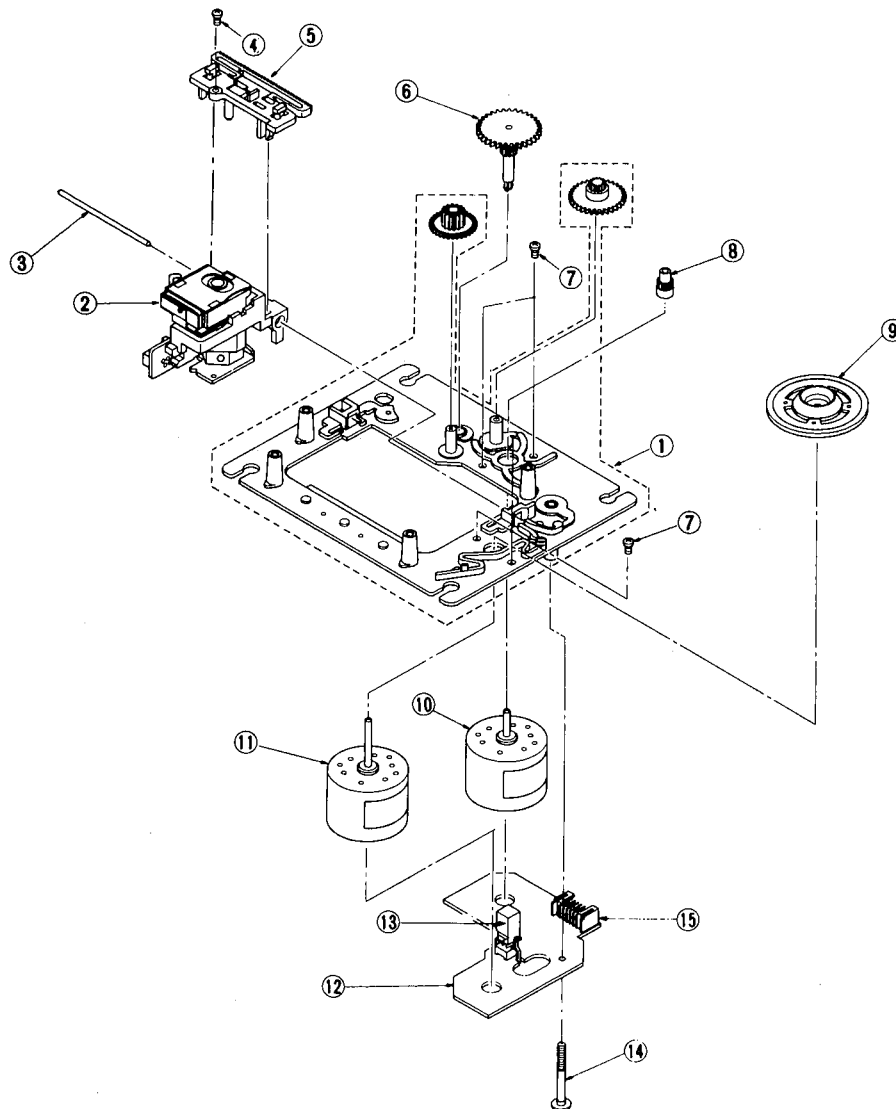
| | | | |
|---|---|---|---|
| M | 2 | M | M |
|---|---|---|---|

| ⚠ | Item | Part Number | Part Name | Q'ty | Description | Area |
|---|------|----------------|--------------------|------|-------------|------|
| | 1 | E208436-001SM | MECHA BASE ASSY | 1 | | |
| | 2 | RF-500TB-14415 | DC MOTOR | 2 | | |
| | 3 | E75984-222SS | MOTOR PULLEY | 2 | | |
| | 4 | SPSP2604Z | SCREW | 4 | | |
| | 5 | E75950-002 | REEL BELT | 2 | | |
| | 6 | E75985-222SS | GEAR(1) | 2 | | |
| | 7 | E208456-001SM | TRAY BASE ASSY | 1 | | |
| | 8 | E26554-004 | CD TRAY | 1 | | |
| | 9 | E309148-002SM | HOOK GUIDE | 1 | | |
| | 10 | E102925-001SM | SIDE BRACKET (R) | 1 | | |
| | 11 | SBSF2608Z | TAPPING SCREW | 14 | | |
| | 12 | E208305-001SM | SIDE BRACKET (L) | 1 | | |
| | 13 | E408514-001SM | EARTH PLATE | 1 | | |
| | 14 | E408517-001SM | M. PLATE | 1 | | |
| | 15 | E208303-002SM | ELEVATOR CAM | 1 | | |
| | 16 | E208302-002SM | MAGAZINE GUIDE (B) | 1 | | |
| | 17 | E208458-002SM | SAFETY LEVER ASSY | 1 | | |
| | 18 | E102922-001SM | ELEVATOR ASSY | 1 | | |
| | 19 | SDST2606Z | SCREW | 4 | | |

CD Mechanism Ass'y and Parts List

Symbol No.

M 3 M M



■ PARTS LIST(CD Mechanism)

Symbol No.

M 3 M M

| Item | Part Number | Part Name | Q'ty | Description | Area |
|------|-----------------|------------------|------|-------------|------|
| 1 | EPB-002A | MECHA BASE | 1 | | |
| 2 | OPTIMA-6S | OPTICAL PICK-UP | 1 | | |
| 3 | E407782-001 | CD SHAFT | 1 | | |
| 4 | SDSF2006Z | SCREW | 1 | | |
| 5 | E307746-001 | CD RACK | 1 | | |
| 6 | E307745-221SS | CAM GEAR | 1 | | |
| 7 | SDSP2003N | SCREW | 4 | | |
| 8 | E406750-221SS | PINION GEAR | 1 | | |
| 9 | EPB309173A | TURNTABLE | 1 | | |
| 10 | MDN-4RA3ETA-1 | FEED MOTOR | 1 | | |
| 11 | E406783-001 | DC MOTOR | 1 | | |
| 12 | EMW10190-001(S) | PRINTED BOARD | 1 | | |
| 13 | EBS1100-005 | LEAF SWITCH | 1 | | |
| 14 | E75832-001 | SPECIAL SCREW | 1 | | |
| 15 | EMV5109-006B | CONNECT TERMINAL | 1 | | |

Note : ENC-444 ☐ varies according to the areas employed. See note (1) when placing an order.



Note (1)

| PC Board Ass'y | Version | Designated Areas |
|------------------|---------|------------------|
| ENN-444 N | C | Canada |
| ENN-444 P | J | the U.S.A. |

TRANSISTORS

| Δ | ITEM | PART NUMBER | DESCRIPTION | AREA |
|---|------|--------------|-------------------------|------|
| | Q111 | 2SB1187(F,G) | SI. TRANSIST ROHM | |
| | Q112 | 2SD1302 | SI. TRANSIST MATSUSHITA | |
| | Q113 | 2SB1357(E,F) | SI. TRANSIST ROHM | |
| | Q131 | 2SA933S(RS) | SI. TRANSIST | |
| | Q132 | 2SD2144S(VW) | SI. TRANSIST ROHM | |
| | Q133 | 2SD2144S(VW) | SI. TRANSIST ROHM | |
| | Q134 | DTA114YS | DIGITAL TRA ROHM | |
| | Q201 | DTA114YS | DIGITAL TRA ROHM | |
| | Q202 | DTA114YS | DIGITAL TRA ROHM | |
| | Q203 | DTA114YS | DIGITAL TRA ROHM | |
| | Q204 | DTA114YS | DIGITAL TRA ROHM | |
| | Q205 | DTA114YS | DIGITAL TRA ROHM | |
| | Q371 | DTC144ES | DIGITAL TRA ROHM | |
| | Q372 | DTA114YS | DIGITAL TRA ROHM | |
| | Q401 | 2SA933S(RS) | SI. TRANSIST | |
| | Q402 | DTC114YS | DIGITAL TRA ROHM | |
| | Q411 | 2SD1302 | SI. TRANSIST MATSUSHITA | |
| | Q412 | 2SD1302 | SI. TRANSIST MATSUSHITA | |
| | Q501 | DTC114YS | DIGITAL TRA ROHM | |

I. C. S.

| Δ | ITEM | PART NUMBER | DESCRIPTION | AREA |
|---|-------|---------------|-------------------------|------|
| | IC201 | MN171202J6A | I.C.(MICRO-C MATSUSHITA | |
| | IC202 | AT24C16-10PC | I.C. | |
| | IC203 | SPS-420-1 | INFRARED DE SANYO | |
| | IC301 | NJM4580DD | I.C.(MONO-AN DAINICHI | |
| | IC341 | NJM4580DD | I.C.(MONO-AN DAINICHI | |
| | IC501 | MN171601J6B1 | I.C.(MICRO-C MATSUSHITA | |
| | IC502 | AT24C01A-10PC | I.C.(EP-ROM) MITSUBISHI | |
| | IC503 | PST9140T | I.C.(MONO-AN MITSUMI | |

DIODES

| Δ | ITEM | PART NUMBER | DESCRIPTION | AREA |
|---|------|----------------|---------------------|------|
| | D101 | S1VB20F | SI. DIODE SINDENGEN | |
| | D111 | MTZ5.6JA | ZENER DIODE ROHM | |
| | D131 | 1SR35-200A | SI. DIODE ROHM | |
| | D132 | 1SR35-200A | SI. DIODE ROHM | |
| | D133 | 1SR35-200A | SI. DIODE ROHM | |
| | D134 | MTZ36JC | ZENER DIODE ROHM | |
| | D201 | SLH-56VC50F130 | L.E.D. | |
| | D371 | 1SS133 | SI. DIODE ROHM | |
| | D372 | 1SS133 | SI. DIODE ROHM | |
| | D401 | 1SS133 | SI. DIODE ROHM | |
| | D402 | 1SS133 | SI. DIODE ROHM | |
| | D501 | 1SS133 | SI. DIODE ROHM | |

CAPACITORS

| Δ | ITEM | PART NUMBER | DESCRIPTION | AREA |
|---|------|--------------|------------------------|------|
| | C101 | QCHB1EZ-223 | 0.022MF 25V CER.CAPACI | |
| | C102 | QCHB1EZ-223 | 0.022MF 25V CER.CAPACI | |
| | C103 | QETB1EM-228 | 2200MF 25V E.CAPACITO | |
| | C104 | QETB1EM-108 | 1000MF 25V AL E.CAPAC | |
| | C108 | QCF21HP-223A | 0.022MF 50V CER.CAPACI | |
| | C111 | QETB1HM-225 | 2.2MF 50V AL E.CAPAC | |
| | C112 | QETB1CM-476 | 47MF 16V AL E.CAPAC | |
| | C113 | QETB1AM-476 | 47MF 10V AL E.CAPACITO | |
| | C131 | QETB1EM-476 | 47MF 25V AL E.CAPAC | |
| | C132 | QETB1HM-107 | 100MF 50V E.CAPACITO | |
| | C133 | QETB1HM-106 | 10MF 50V E.CAPACITO | |
| | C201 | QCHB1EZ-223 | 0.022MF 25V CER.CAPACI | |
| | C202 | QER51HM-106 | 10MF 50V AL E.CAPAC | |
| | C203 | QER51EM-106 | 10MF 25V E.CAPACITO | |
| | C204 | QCHB1EZ-223 | 0.022MF 25V CER.CAPACI | |
| | C205 | QETB1EM-106 | 10MF 25V AL E.CAPAC | |
| | C206 | QETB1HM-105 | 1MF 50V AL E.CAPAC | |
| | C207 | QETB1HM-105 | 1MF 50V AL E.CAPAC | |
| | C301 | QFLB1HJ-332 | 3300PF 50V MYLAR CAPA | |
| | C302 | QFLB1HJ-332 | 3300PF 50V MYLAR CAPA | |

CAPACITORS

| Δ | ITEM | PART NUMBER | DESCRIPTION | AREA |
|---|------|--------------|------------------------|------|
| | C303 | QFLB1HJ-183 | 0.018MF 50V MYLAR CAPA | |
| | C304 | QFLB1HJ-183 | 0.018MF 50V MYLAR CAPA | |
| | C305 | QETB1AM-226 | 22MF 10V ELECTRO | |
| | C306 | QETB1AM-226 | 22MF 10V ELECTRO | |
| | C307 | QFLB1HJ-332 | 3300PF 50V MYLAR CAPA | |
| | C308 | QFLB1HJ-332 | 3300PF 50V MYLAR CAPA | |
| | C309 | QFLB1HJ-332 | 3300PF 50V MYLAR CAPA | |
| | C310 | QFLB1HJ-332 | 3300PF 50V MYLAR CAPA | |
| | C321 | QETB1EM-476 | 47MF 25V AL E.CAPAC | |
| | C322 | QETB1EM-476 | 47MF 25V AL E.CAPAC | |
| | C341 | QETB1HM-475E | 4.7MF 50V E.CAPACITO | |
| | C342 | QETB1HM-475E | 4.7MF 50V E.CAPACITO | |
| | C343 | QCBB1HK-181Y | 180PF 50V CER.CAPACI | |
| | C344 | QCBB1HK-181Y | 180PF 50V CER.CAPACI | |
| | C345 | QETB1EM-476 | 47MF 25V AL E.CAPAC | |
| | C346 | QETB1EM-476 | 47MF 25V AL E.CAPAC | |
| | C371 | QCBB1HK-331Y | 330PF 50V CER.CAPACI | |
| | C381 | QETB1AM-107 | 100MF 10V AL E.CAPAC | |
| | C399 | QFV81HJ-104 | 0.1MF 50V THIN FILM | |
| | C401 | QETB1CM-227 | 220MF 16V AL E.CAPAC | |
| | C402 | QETB1CM-226 | 22MF 16V E.CAPACITO | |
| | C411 | QCHB1EZ-223 | 0.022MF 25V CER.CAPACI | |
| | C451 | QETB1EM-106 | 10MF 25V AL E.CAPAC | |
| | C452 | QETB1EM-106 | 10MF 25V AL E.CAPAC | |
| | C453 | QETB1EM-227 | 220MF 25V AL E.CAPAC | |
| | C454 | QETB1EM-227 | 220MF 25V AL E.CAPAC | |
| | C501 | QCZ0202-155 | 1.5MF 25V CER.RESIST | |
| | C503 | QETB1EM-106 | 10MF 25V AL E.CAPAC | |
| | C511 | QETB1EM-106 | 10MF 25V AL E.CAPAC | |
| | C512 | QCHB1EZ-223 | 0.022MF 25V CER.CAPACI | |
| | C801 | QCHB1EZ-223 | 0.022MF 25V CER.CAPACI | |

RESISTORS

| Δ | ITEM | PART NUMBER | DESCRIPTION | AREA |
|---|------|----------------|----------------------|------|
| | R101 | PTH61G30BD2R2N | FUSIBLE RE | C |
| | R102 | PTH61G30BD2R2N | FUSIBLE RE | C |
| | R111 | QRD161J-222 | 2.2K 1/6W CARBON RES | |
| | R112 | QRD161J-221 | 220 1/6W CARBON RES | |
| | R113 | QRD161J-221 | 220 1/6W CARBON RES | |
| | R114 | QRD161J-202 | 2K 1/6W CARBON RES | |
| | R115 | QRD161J-102 | 1K 1/6W CARBON RES | |
| | R116 | QRD161J-821 | 820 1/6W CARBON RES | |
| | R117 | QRD167J-1R5 | 1.5 1/6W CARBON RES | |
| | R118 | QRD167J-1R5 | 1.5 1/6W CARBON RES | |
| | R119 | QRD161J-202 | 2K 1/6W CARBON RES | |
| | R131 | QRZ0077-560 | 56 1/4W FUSIBLE RE | C |
| | R132 | QRD161J-362 | 3.6K 1/6W CARBON RES | |
| | R133 | QRD161J-362 | 3.6K 1/6W CARBON RES | |
| | R134 | QRD167J-121 | 120 1/6W CARBON RES | |
| | R135 | QRD161J-222 | 2.2K 1/6W CARBON RES | |
| | R136 | QRD161J-222 | 2.2K 1/6W CARBON RES | |
| | R137 | QRD161J-103 | 10K 1/6W CARBON RES | |
| | R138 | QRD161J-103 | 10K 1/6W CARBON RES | |
| | R139 | QRD161J-103 | 10K 1/6W CARBON RES | |
| | R198 | QRD161J-2R2 | 2.2 1/6W CARBON RES | J |
| | R199 | QRD161J-2R2 | 2.2 1/6W CARBON RES | J |
| | R201 | QRD161J-124 | 120K 1/6W CARBON RES | |
| | R202 | QRD161J-124 | 120K 1/6W CARBON RES | |
| | R203 | QRD161J-124 | 120K 1/6W CARBON RES | |
| | R204 | QRD161J-124 | 120K 1/6W CARBON RES | |
| | R205 | QRD161J-124 | 120K 1/6W CARBON RES | |
| | R206 | QRD161J-103 | 10K 1/6W CARBON RES | |
| | R207 | QRD161J-103 | 10K 1/6W CARBON RES | |
| | R208 | QRD161J-103 | 10K 1/6W CARBON RES | |
| | R209 | QRD161J-103 | 10K 1/6W CARBON RES | |
| | R210 | QRD161J-473 | 47K 1/6W CARBON RES | |
| | R211 | QRD161J-473 | 47K 1/6W CARBON RES | |
| | R212 | QRD161J-473 | 47K 1/6W CARBON RES | |
| | R213 | QRD161J-473 | 47K 1/6W CARBON RES | |
| | R214 | QRD161J-181 | 180 1/6W CARBON RES | |
| | R215 | QRD161J-103 | 10K 1/6W CARBON RES | |
| | R301 | QRD161J-621 | 620 1/6W CARBON RES | |
| | R302 | QRD161J-621 | 620 1/6W CARBON RES | |
| | R303 | QRD161J-561 | 560 1/6W CARBON RES | |
| | R304 | QRD161J-561 | 560 1/6W CARBON RES | |
| | R305 | QRD161J-183 | 18K 1/6W CARBON RES | |
| | R306 | QRD161J-183 | 18K 1/6W CARBON RES | |
| | R307 | QRD161J-273 | 27K 1/6W CARBON RES | |
| | R308 | QRD161J-273 | 27K 1/6W CARBON RES | |
| | R309 | QRD161J-561 | 560 1/6W CARBON RES | |
| | R310 | QRD161J-561 | 560 1/6W CARBON RES | |
| | R311 | QRD161J-101 | 100 1/6W CARBON RES | |
| | R312 | QRD161J-101 | 100 1/6W CARBON RES | |
| | R313 | QRD161J-821 | 820 1/6W CARBON RES | |
| | R314 | QRD161J-821 | 820 1/6W CARBON RES | |
| | R321 | QRD161J-221 | 220 1/6W CARBON RES | |
| | R322 | QRD161J-221 | 220 1/6W CARBON RES | |
| | R341 | QRD161J-561 | 560 1/6W CARBON RES | |
| | R342 | QRD161J-561 | 560 1/6W CARBON RES | |

RESISTORS

| △ | ITEM | PART NUMBER | DESCRIPTION | | AREA |
|---|-------|----------------|-------------|-------|------------|
| | R343 | QRD161J-473 | 47K | 1/6W | CARBON RES |
| | R344 | QRD161J-473 | 47K | 1/6W | CARBON RES |
| | R345 | QRD161J-103 | 10K | 1/6W | CARBON RES |
| | R346 | QRD161J-103 | 10K | 1/6W | CARBON RES |
| | R347 | QRD161J-273 | 27K | 1/6W | CARBON RES |
| | R348 | QRD161J-273 | 27K | 1/6W | CARBON RES |
| | R349 | QRD167J-153 | 15K | 1/6W | CARBON RES |
| | R350 | QRD167J-153 | 15K | 1/6W | CARBON RES |
| | R351 | QRD161J-221 | 220 | 1/6W | CARBON RES |
| | R352 | QRD161J-221 | 220 | 1/6W | CARBON RES |
| | R371 | QRD161J-472 | 4.7K | 1/6W | CARBON RES |
| | R372 | QRD161J-221 | 220 | 1/6W | CARBON RES |
| | R373 | QRD161J-221 | 220 | 1/6W | CARBON RES |
| | R374 | QRD161J-101 | 100 | 1/6W | CARBON RES |
| | R381 | QRD161J-2R2 | 2.2 | 1/6W | CARBON RES |
| | R401 | QRD161J-331 | 330 | 1/6W | CARBON RES |
| | R402 | QRD167J-822 | 8.2K | 1/6W | CARBON RES |
| | R403 | QRD161J-683 | 68K | 1/6W | CARBON RES |
| | R404 | QRD161J-221 | 220 | 1/6W | CARBON RES |
| | R411 | QRD161J-103 | 10K | 1/6W | CARBON RES |
| | R412 | QRD161J-103 | 10K | 1/6W | CARBON RES |
| | R413 | QRD167J-154 | 150K | 1/6W | CARBON RES |
| | R414 | QRD161J-684 | 680K | 1/6W | CARBON RES |
| | R502 | QRD161J-103 | 10K | 1/6W | CARBON RES |
| | R503 | QRD161J-103 | 10K | 1/6W | CARBON RES |
| | R504 | QRD161J-103 | 10K | 1/6W | CARBON RES |
| | R510 | QRD161J-472 | 4.7K | 1/6W | CARBON RES |
| | R511 | QRD161J-102 | 1K | 1/6W | CARBON RES |
| | R521 | QRD161J-473 | 47K | 1/6W | CARBON RES |
| | R522 | QRD161J-473 | 47K | 1/6W | CARBON RES |
| | R523 | QRD161J-473 | 47K | 1/6W | CARBON RES |
| | R524 | QRD161J-473 | 47K | 1/6W | CARBON RES |
| | R801 | QRD161J-390 | 39 | 1/6W | CARBON RES |
| | R802 | QRD161J-390 | 39 | 1/6W | CARBON RES |
| | R803 | QRD161J-270 | 27 | 1/6W | CARBON RES |
| | R804 | QRD161J-270 | 27 | 1/6W | CARBON RES |
| | R999 | QRD161J-102 | 1K | 1/6W | CARBON RES |
| | RA501 | QR8089J-103 | 10K | 1/10W | NETWORK RE |
| | VR800 | QVAB79C-E53CJ5 | 5K | | VARIABLE R |

OTHERS

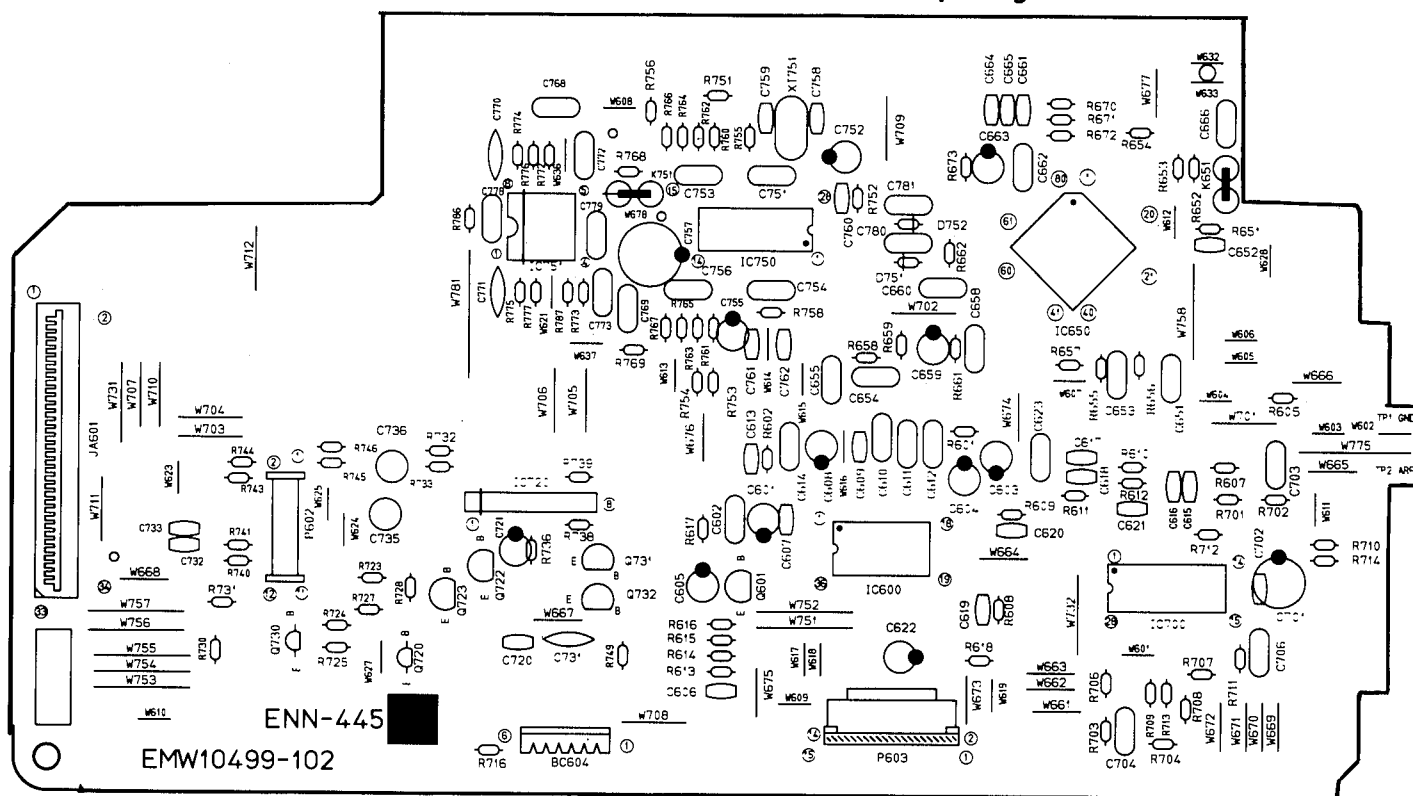
| △ | ITEM | PART NUMBER | DESCRIPTION | AREA |
|---|------|--------------|-------------|------|
| | | EMW10530-002 | PRINTED BOA | |
| | | E70306-001 | HEAT SINK | |
| | | SBSE3008Z | SCREW | |
| | J101 | EMN00TV-216A | PIN JACK | |
| | J102 | QMS3501-020 | PIN JACK | |

O T H E R S

| △ | ITEM | PART NUMBER | DESCRIPTION | AREA |
|---|-------|----------------|-------------------|---------------|
| | J103 | GP1F32T | OPTICAL JAC | |
| | J801 | QMS6A40-E20G | HEADPHONE J | |
| △ | J901 | QMCB001-E03H | AC INLET | |
| | S201 | QSQ1001-E01ZJ7 | PUSH SWITCH POWER | |
| | S202 | QSQ1001-E01ZJ7 | PUSH SWITCH P | |
| | S203 | QSQ1001-E01ZJ7 | PUSH SWITCH 1 | |
| | S204 | QSQ1001-E01ZJ7 | PUSH SWITCH 2 | |
| | S205 | QSQ1001-E01ZJ7 | PUSH SWITCH 3 | |
| | S206 | QSQ1001-E01ZJ7 | PUSH SWITCH 4 | |
| | S207 | QSQ1001-E01ZJ7 | PUSH SWITCH 5 | |
| | S208 | QSQ1001-E01ZJ7 | PUSH SWITCH 6 | |
| | S209 | QSQ1001-E01ZJ7 | PUSH SWITCH | |
| | S210 | QSQ1001-E01ZJ7 | PUSH SWITCH | TITLE INPUT |
| | S211 | QSQ1001-E01ZJ7 | PUSH SWITCH | DISC SEARCH |
| | S212 | QSQ1001-E01ZJ7 | PUSH SWITCH | TITLE SEARCH |
| | S213 | QSQ1001-E01ZJ7 | PUSH SWITCH | MEMORY/ENTER |
| | S214 | QSQ1001-E01ZJ7 | PUSH SWITCH | < |
| | S215 | QSQ1001-E01ZJ7 | PUSH SWITCH | > |
| | S216 | QSQ1001-E01ZJ7 | PUSH SWITCH | PLAY MODE |
| | S217 | QSQ1001-E01ZJ7 | PUSH SWITCH | REPAT |
| | S218 | QSQ1001-E01ZJ7 | PUSH SWITCH | DISLAY/CALL |
| | S219 | QSQ1001-E01ZJ7 | PUSH SWITCH | EJECT |
| | S220 | QSQ1001-E01ZJ7 | PUSH SWITCH | OPEN/CLOSE |
| | S221 | QSQ1001-E01ZJ7 | PUSH SWITCH | STOP/CANCEL |
| | S222 | QSQ1001-E01ZJ7 | PUSH SWITCH | ⏮ |
| | S223 | QSQ1001-E01ZJ7 | PUSH SWITCH | ⏭ |
| | S224 | QSQ1002-E03J5 | PUSH SWITCH | PLAY/PAUSE |
| | X201 | ECX0060-000EM | CERAMIC RES | DISC/CARACTER |
| | X501 | ECX0060-000EM | CERAMIC RES | |
| | CN202 | EW5268-A450J | SOCKET WIRE | |
| | CN303 | EMV5109-011A | MALE CONNOC | |
| | CN304 | EMV7123-034 | CONNECT TER | |
| △ | CP101 | ICP-N10 | I.C.PROTECT | C |
| | EP501 | EMZ4002-001Z | EARTH PLATE | |
| | FH201 | E75819-001 | SUPPORT HOL | |
| | FH202 | E75820-001 | SUPPORT HOL | |
| | FL201 | ELU0001-204 | FLUORESCENT | |
| | FS201 | E3400-439 | FELT SPACER | |
| | FS202 | E3400-439 | FELT SPACER | |
| | FW201 | EW340-25LS | FLAT WIRE A | |
| | FW203 | EW390-50SS | FLAT WIRE A | |
| | FW204 | EW360-55SS | FLAT WIRE A | |
| | FW205 | EW390-16LS | FLAT WIRE A | |
| | FW501 | EW380-40LS | FLAT WIRE A | |
| | FW801 | EW330-08LS | CORD | |
| | JT101 | EMV7145-004Z | SOCKET ASSY | |
| | JT102 | EMV7145-004Z | SOCKET ASSY | |
| | JT103 | EMV7145-004Z | SOCKET ASSY | |
| | JT301 | EMV7145-003Z | SOCKET ASSY | |
| | JT302 | EMV7122-005 | MALE CONNOC | |
| | JT303 | EMV7145-004Z | SOCKET ASSY | |

■ ENN-445 □ CD PC Board Ass'y

Note : ENN445 ☐ varies according to the areas employed. See note (2) when placing an order.



Note (2)

| PC Board Ass'y | Version | Designated Areas |
|--------------------|---------|------------------|
| ENN-445 [N] | C | Canada |
| ENN-445 [P] | J | the U.S.A. |

TRANSISTORS

| ITEM | PART NUMBER | DESCRIPTION | AREA |
|------|--------------|----------------------|------|
| Q601 | 2SA950(Q,Y) | SI. TRANSIST TOSHIBA | |
| Q722 | 2SC2060(Q,R) | SI. TRANSIST ROHM | |
| Q723 | 2SA934(Q,R) | SI. TRANSIST ROHM | |
| Q730 | DTC144ES | DIGITAL TRA ROHM | |
| Q731 | 2SC2060(Q,R) | SI. TRANSIST ROHM | |
| Q732 | 2SA934(Q,R) | SI. TRANSIST ROHM | |

I. C. S.

| ITEM | PART NUMBER | DESCRIPTION | AREA |
|-------|-------------|-------------------------|------|
| IC600 | AN8806SB | I.C.(M) MATSUSHITA | |
| IC650 | MN662720RB | I.C.(DIGI-MO MATSUSHITA | |
| IC700 | BA6398FP | I.C.(MONO-AN ROHM | |
| IC720 | VC4580L | I.C.(MONO-AN DAINICHI | |
| IC750 | MN35503 | I.C.(DIGI-MO MATSUSHITA | |
| IC751 | NJM45800D | I.C.(MONO-AN DAINICHI | |

DIODES

| ITEM | PART NUMBER | DESCRIPTION | AREA |
|------|-------------|-------------|------|
| D751 | 1SS119 | SI. DIODE | |
| D752 | 1SS119 | SI. DIODE | |

CAPACITORS

| ITEM | PART NUMBER | DESCRIPTION | AREA |
|------|---------------|------------------------|------|
| C601 | QETB1AM-107 | 100MF 10V AL E.CAPAC | |
| C602 | QCZ0202-155 | 1.5MF 25V CER.RESIST | |
| C604 | QETB1AM-107 | 100MF 10V AL E.CAPAC | |
| C605 | QERS1VM-106 | 10MF 35V AL E.CAPAC | |
| C606 | QCHB1EZ-223 | 0.022MF 25V CER.CAPACI | |
| C607 | QCSB1HJ-680 | 68PF 50V CER.CAPACI | |
| C608 | QETB1HM-105 | 1MF 50V AL E.CAPAC | |
| C609 | QCB81HK-101Y | 100PF 50V CER.CAPACI | |
| C610 | QFLB1HJ-273 | 0.027MF 50V MYLAR CAPA | |
| C611 | QFLB1HJ-472 | 4700PF 50V MYLAR CAPA | |
| C612 | QFLB1HJ-332 | 3300PF 50V MYLAR CAPA | |
| C613 | QCT30CH-3R3Y | 3.3PF 50V CER.CAPACI | |
| C614 | QFV81HJ-104 | 0.1MF 50V THIN FILM | |
| C615 | QCHB1EZ-223 | 0.022MF 25V CER.CAPACI | |
| C616 | QCHB1EZ-223 | 0.022MF 25V CER.CAPACI | |
| C617 | QCHB1EZ-223 | 0.022MF 25V CER.CAPACI | |
| C618 | QCXB1CM-222Y | 2200PF 16V CER.CAPACI | |
| C619 | QCB81HK-271Y | 270PF 50V CER.CAPACI | |
| C620 | QCSB1HJ-470 | 47PF 50V CER.CAPACI | |
| C621 | QCB81HK-821Y | 820PF 50V CER.CAPACI | |
| C622 | QETB1AM-476 | 47MF 10V E.CAPACITO | |
| C623 | QFV81HJ-104 | 0.1MF 50V THIN FILM | |
| C651 | QFLB1HJ-471 | 470PF 50V MYLAR CAPA | |
| C652 | QCHB1EZ-223 | 0.022MF 25V CER.CAPACI | |
| C653 | QFLB1HJ-223 | 0.022MF 50V MYLAR CAPA | |
| C654 | QFLB1HJ-223 | 0.022MF 50V MYLAR CAPA | |
| C655 | QFV81HJ-334 | 0.33MF 50V TF.CAPACIT | |
| C658 | QFV81HJ-104 | 0.1MF 50V THIN FILM | |
| C659 | QETB1AM-107 | 100MF 10V AL E.CAPAC | |
| C660 | QFLB1HJ-223 | 0.022MF 50V MYLAR CAPA | |
| C662 | QFV81HJ-104 | 0.1MF 50V THIN FILM | |
| C663 | QETB1AM-107 | 100MF 10V AL E.CAPAC | |
| C701 | QETB1CM-227 | 220MF 16V AL E.CAPAC | |
| C702 | QCHB1EZ-223 | 0.022MF 25V CER.CAPACI | |
| C703 | QFLB1HJ-273 | 0.027MF 50V MYLAR CAPA | |
| C704 | QFLB1HJ-183 | 0.018MF 50V MYLAR CAPA | |
| C706 | QFLB1HJ-273 | 0.027MF 50V MYLAR CAPA | |
| C720 | QCHB1EZ-223 | 0.022MF 25V CER.CAPACI | |
| C721 | QETB1CM-476 | 47MF 16V AL E.CAPAC | |
| C722 | QCS21HJ-101A | 100PF 50V CER.CAPACI | |
| C731 | QCF21HP-223A | 0.022MF 50V CER.CAPACI | |
| C732 | QCHB1EZ-223 | 0.022MF 25V CER.CAPACI | |
| C733 | QETB1HM-105 | 1MF 50V AL E.CAPAC | |
| C735 | QETC1HM-225ZN | 2.2MF 50V AL E.CAPAC | |
| C736 | QETC1HM-225ZN | 2.2MF 50V AL E.CAPAC | |

CAPACITORS

| ITEM | PART NUMBER | DESCRIPTION | AREA |
|------|--------------|------------------------|------|
| C751 | QCZ0202-155 | 1.5MF 25V CER.RESIST | |
| C752 | QETB1AM-476 | 47MF 10V E.CAPACITO | |
| C753 | QCZ0202-155 | 1.5MF 25V CER.RESIST | |
| C754 | QCZ0202-155 | 1.5MF 25V CER.RESIST | |
| C755 | QETB0JM-227 | 220MF 6.3V E.CAPACITO | |
| C756 | QCZ0202-155 | 1.5MF 25V CER.RESIST | |
| C757 | QETB0JM-108E | 1000MF 6.3V E.CAPACITO | |
| C758 | QCT30CH-180Y | 18PF 50V CER.CAPACI | |
| C759 | QCT30CH-180Y | 18PF 50V CER.CAPACI | |
| C768 | QFLB1HJ-222 | 2200PF 50V MYLAR CAPA | |
| C769 | QFLB1HJ-222 | 2200PF 50V MYLAR CAPA | |
| C770 | QCS31HJ-331Z | 330PF 50V CER.CAPACI | |
| C771 | QCS31HJ-331Z | 330PF 50V CER.CAPACI | |
| C772 | QFLB1HJ-333 | 0.033MF 50V MYLAR CAPA | |
| C773 | QFLB1HJ-333 | 0.033MF 50V MYLAR CAPA | |
| C778 | QFV81HJ-104 | 0.1MF 50V THIN FILM | |
| C779 | QFV81HJ-104 | 0.1MF 50V THIN FILM | |
| C780 | QCZ0202-155 | 1.5MF 25V CER.RESIST | |

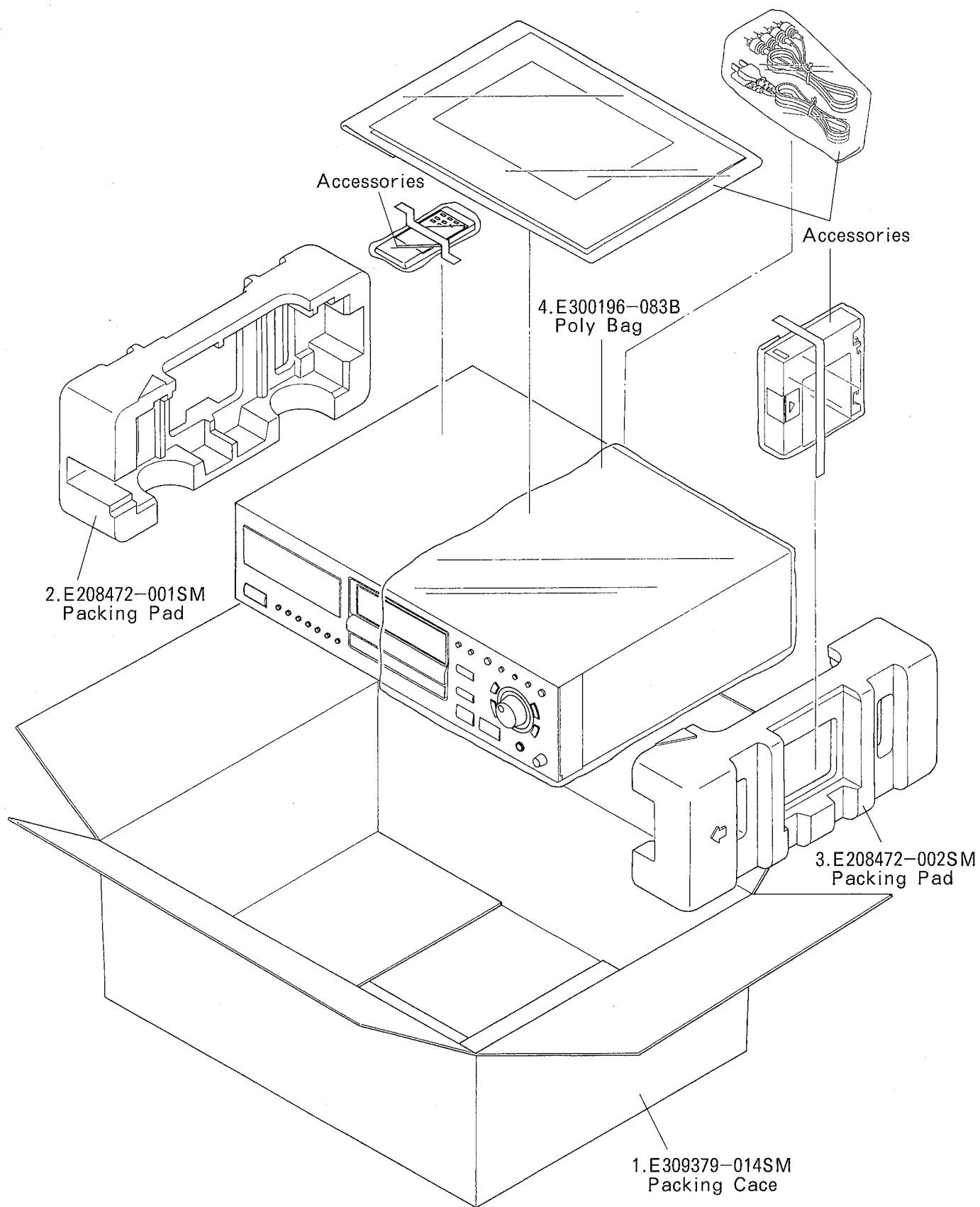
RESISTORS

| ITEM | PART NUMBER | DESCRIPTION | AREA |
|------|--------------|----------------------|------|
| R602 | QRD161J-123 | 12K 1/6W CARBON RES | |
| R605 | QRD167J-134 | 130K 1/6W CARBON RES | |
| R607 | QRD161J-913 | 91K 1/6W CARBON RES | |
| R608 | QRD161J-273 | 27K 1/6W CARBON RES | |
| R609 | QRD161J-114 | 110K 1/6W CARBON RES | |
| R610 | QRD167J-154 | 150K 1/6W CARBON RES | |
| R611 | QRD161J-394 | 390K 1/6W CARBON RES | |
| R612 | QRD161J-103 | 10K 1/6W CARBON RES | |
| R613 | QRD167J-121 | 120 1/6W CARBON RES | |
| R614 | QRD161J-470 | 47 1/6W CARBON RES | |
| R615 | QRD161J-470 | 47 1/6W CARBON RES | |
| R616 | QRD161J-470 | 47 1/6W CARBON RES | |
| R617 | QRD161J-2R2 | 2.2 1/6W CARBON RES | |
| R618 | QRD161J-910Y | 91 1/6W CARBON RES | |
| R651 | QRD161J-102 | 1K 1/6W CARBON RES | |
| R652 | QRD161J-102 | 1K 1/6W CARBON RES | |
| R653 | QRD161J-102 | 1K 1/6W CARBON RES | |
| R654 | QRD167J-151 | 150 1/6W CARBON RES | |
| R655 | QRD167J-155 | 1.5M 1/6W CARBON RES | |
| R656 | QRD161J-104 | 100K 1/6W CARBON RES | |
| R657 | QRD161J-104 | 100K 1/6W CARBON RES | |
| R658 | QRD161J-681 | 680 1/6W CARBON RES | |
| R659 | QRD161J-124 | 120K 1/6W CARBON RES | |
| R661 | QRD161J-2R2 | 2.2 1/6W CARBON RES | |
| R662 | QRD161J-2R2 | 2.2 1/6W CARBON RES | |
| R670 | QRD161J-102 | 1K 1/6W CARBON RES | |
| R671 | QRD161J-102 | 1K 1/6W CARBON RES | |
| R672 | QRD161J-102 | 1K 1/6W CARBON RES | |
| R673 | QRD161J-472 | 4.7K 1/6W CARBON RES | |
| R674 | QRD161J-102 | 1K 1/6W CARBON RES | |
| R701 | QRD161J-821 | 820 1/6W CARBON RES | |
| R702 | QRD167J-562 | 5.6K 1/6W CARBON RES | |
| R703 | QRD161J-112 | 1.1K 1/6W CARBON RES | |
| R704 | QRD167J-113 | 11K 1/6W CARBON RES | |
| R706 | QRD161J-124 | 120K 1/6W CARBON RES | |
| R707 | QRD167J-332 | 3.3K 1/6W CARBON RES | |
| R708 | QRD161J-752 | 7.5K 1/6W CARBON RES | |
| R709 | QRD167J-223 | 22K 1/6W CARBON RES | |
| R710 | QRD161J-392 | 3.9K 1/6W CARBON RES | |
| R711 | QRD167J-153 | 15K 1/6W CARBON RES | |
| R712 | QRD161J-752 | 7.5K 1/6W CARBON RES | |
| R713 | QRD167J-751 | 750 1/6W CARBON RES | |
| R714 | QRD161J-363 | 36K 1/6W CARBON RES | |
| R716 | QRD167J-151 | 150 1/6W CARBON RES | |
| R723 | QRD167J-223 | 22K 1/6W CARBON RES | |
| R724 | QRD161J-303Y | 30K 1/6W CARBON RES | |
| R725 | QRD161J-183 | 18K 1/6W CARBON RES | |
| R726 | QRD167J-272 | 2.7K 1/6W CARBON RES | |
| R727 | QRD161J-183 | 18K 1/6W CARBON RES | |
| R728 | QRD161J-221 | 220 1/6W CARBON RES | |
| R730 | QRD161J-363 | 36K 1/6W CARBON RES | |
| R731 | QRD167J-153 | 15K 1/6W CARBON RES | |
| R732 | QRD167J-153 | 15K 1/6W CARBON RES | |
| R733 | QRD161J-303Y | 30K 1/6W CARBON RES | |
| R736 | QRD161J-363 | 36K 1/6W CARBON RES | |
| R738 | QRD161J-363 | 36K 1/6W CARBON RES | |
| R739 | QRD167J-751 | 750 1/6W CARBON RES | |
| R740 | QRD161J-102 | 1K 1/6W CARBON RES | |
| R741 | QRD161J-221 | 220 1/6W CARBON RES | |
| R743 | QRD161J-102 | 1K 1/6W CARBON RES | |
| R744 | QRD161J-102 | 1K 1/6W CARBON RES | |
| R745 | QRD161J-102 | 1K 1/6W CARBON RES | |
| R746 | QRD161J-102 | 1K 1/6W CARBON RES | |
| R749 | QRD161J-2R2 | 2.2 1/6W CARBON RES | |
| R751 | QRD161J-101 | 100 1/6W CARBON RES | |
| R752 | QRD161J-102 | 1K 1/6W CARBON RES | |
| R753 | QRD167J-560 | 56 1/6W CARBON RES | |
| R755 | QRD161J-271 | 270 1/6W CARBON RES | |
| R756 | QRD161J-101 | 100 1/6W CARBON RES | |
| R758 | QRD161J-271 | 270 1/6W CARBON RES | |
| R760 | QRV144F-1602 | 16K 1/4W CONST.META | |
| R761 | QRV144F-1602 | 16K 1/4W CONST.META | |
| R762 | QRD161J-243 | 24K 1/6W CARBON RES | |
| R763 | QRD161J-243 | 24K 1/6W CARBON RES | |
| R764 | QRV144F-1602 | 16K 1/4W CONST.META | |

Packing Materials and Part Numbers

Symbol No.

| | | | |
|---|---|---|---|
| M | 5 | M | M |
|---|---|---|---|



PARTS LIST

Note : All printed circuit boards assemblies are not available as service parts.

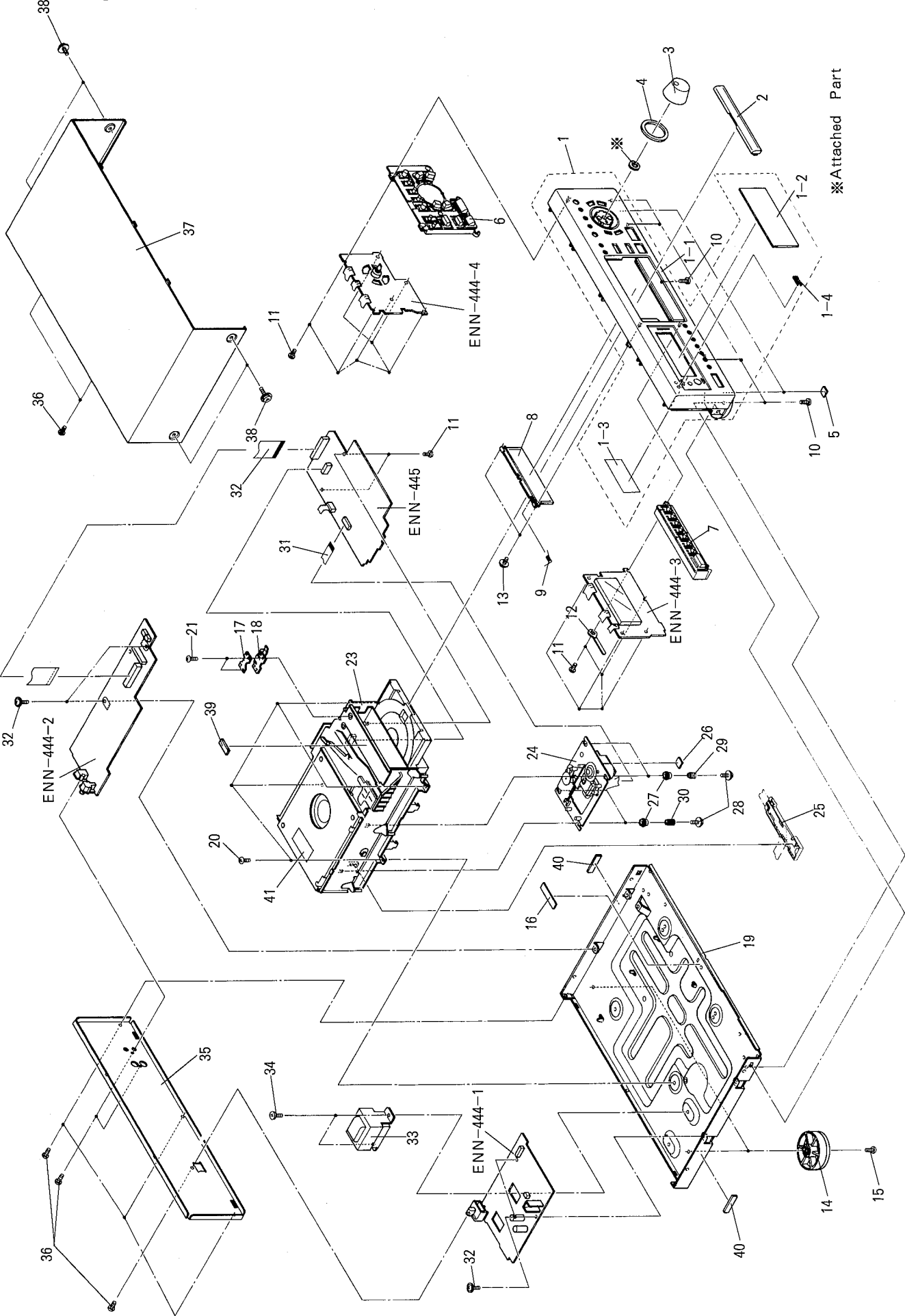
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General Exploded View and Parts List

Symbol No.

| | | | |
|---|---|---|---|
| M | 1 | M | M |
|---|---|---|---|



■ PARTS LIST

Symbol No.

M 1 M M

| ⚠ | Item | Part Number | Part Name | Q'ty | Description | Area |
|---|------|-----------------|--------------------------|------|--------------------|------|
| | 1 | EFP-XLM417TNJ(S | FRONT PANEL ASS | 1 | | |
| | 1-1 | E103004-010SM | FRONT PANEL | 1 | | |
| | 1-2 | E309341-006SM | WINDOW SCREEN | 1 | | |
| | 1-3 | E408594-001SM | FLOURESCENT DISPL.SCREEN | 1 | | |
| | 1-4 | VJD5429-001 | JVC MARK | 1 | | |
| | 2 | E309345-003SM | C.D FITTING | 1 | | |
| | 3 | E309339-001SM | KNOB | 1 | | |
| | 4 | E408778-002SM | SHEET ASS'Y | 1 | | |
| | 5 | E75896-001 | SPACER | 2 | FRONT FOOT | |
| | 6 | E208468-001SM | PUSH BUTTON | 1 | PLAY/PAUSE | |
| | 7 | E208466-001SM | PUSH BUTTON | 1 | POWER | |
| | 8 | E309343-001SM | LID PLATE | 1 | | |
| | 9 | E73534-001 | SPRING | 1 | | |
| | 10 | SDSG3006M | TAPPING SCREW | 5 | | |
| | 11 | SDSF2608Z | SCREW | 13 | | |
| | 12 | E407469-001SS | WIRE CLAMP | 1 | | |
| | 13 | E72405-001 | SPECIAL SCREW | 2 | | |
| | 14 | VJF4039-00E | FOOT | 2 | | |
| | 15 | SBST3008Z | TAPPING SCREW | 2 | | |
| | 16 | E306805-134 | SPACER | 1 | CHASSIS BASE | |
| | 17 | E408823-001SM | SUPPORT BRACKET | 1 | | |
| | 18 | E309520-001 | LEAF SPRING | 1 | | |
| | 19 | E103006-001SM | CHASSIS BASE | 1 | | |
| | 20 | SBSG3008Z | TAPPING SCREW | 4 | | |
| | 21 | SBSF3008Z | TAPPING SCREW | 2 | | |
| | 22 | VWF1234-16TTB | FFC CABLE | 1 | | |
| | 23 | ----- | CD-CH MECHA | 1 | SEE PAGE 3-4 | |
| | 24 | ----- | CD MECH | 1 | SEE PAGE 3-6 | |
| | 25 | E308181-221SS | FFC HOLDER | 1 | | |
| | 26 | E306805-163 | SPACER | 1 | CD MECH P.C.B | |
| | 27 | E407153-001 | INSULATOR | 4 | | |
| | 28 | E408361-001 | SCREW | 4 | | |
| | 29 | E408373-001 | SPRING(BLACK) | 2 | | |
| | 30 | E408373-002 | SPRING | 2 | | |
| | 31 | VWF1015-16PPA | FFC CABLE | 1 | | |
| ⚠ | 32 | GBSG3008CC | TAPPING SCREW | 4 | | |
| | 33 | ETP1000-86JAJ | POWER TRANSFORMER | 1 | | |
| | 34 | E65389-004 | SPECIAL SCREW | 2 | POWER TRANSFORMER | |
| | 35 | E208470-001SM | REAR PANEL | 1 | | J |
| | 35 | E208470-002SM | REAR PANEL | 1 | | C |
| | 36 | E73273-006 | SPECIAL SCREW | 8 | | |
| | 37 | E206967-007 | METAL COVER | 1 | | |
| | 38 | E406308-001 | SPECIAL SCREW | 4 | | |
| | 39 | E306805-161 | SPACER | 1 | CH MECHA TOP FRONT | |
| | 40 | E306805-153 | SPACER | 2 | CHASSIS BASE | |
| | 41 | E406507-001 | CAUTION LABEL | 1 | | C |
| | - | E307570-001 | NUMBER LABEL | 1 | | J |

The Marks for Designated Areas

J the U.S.A.

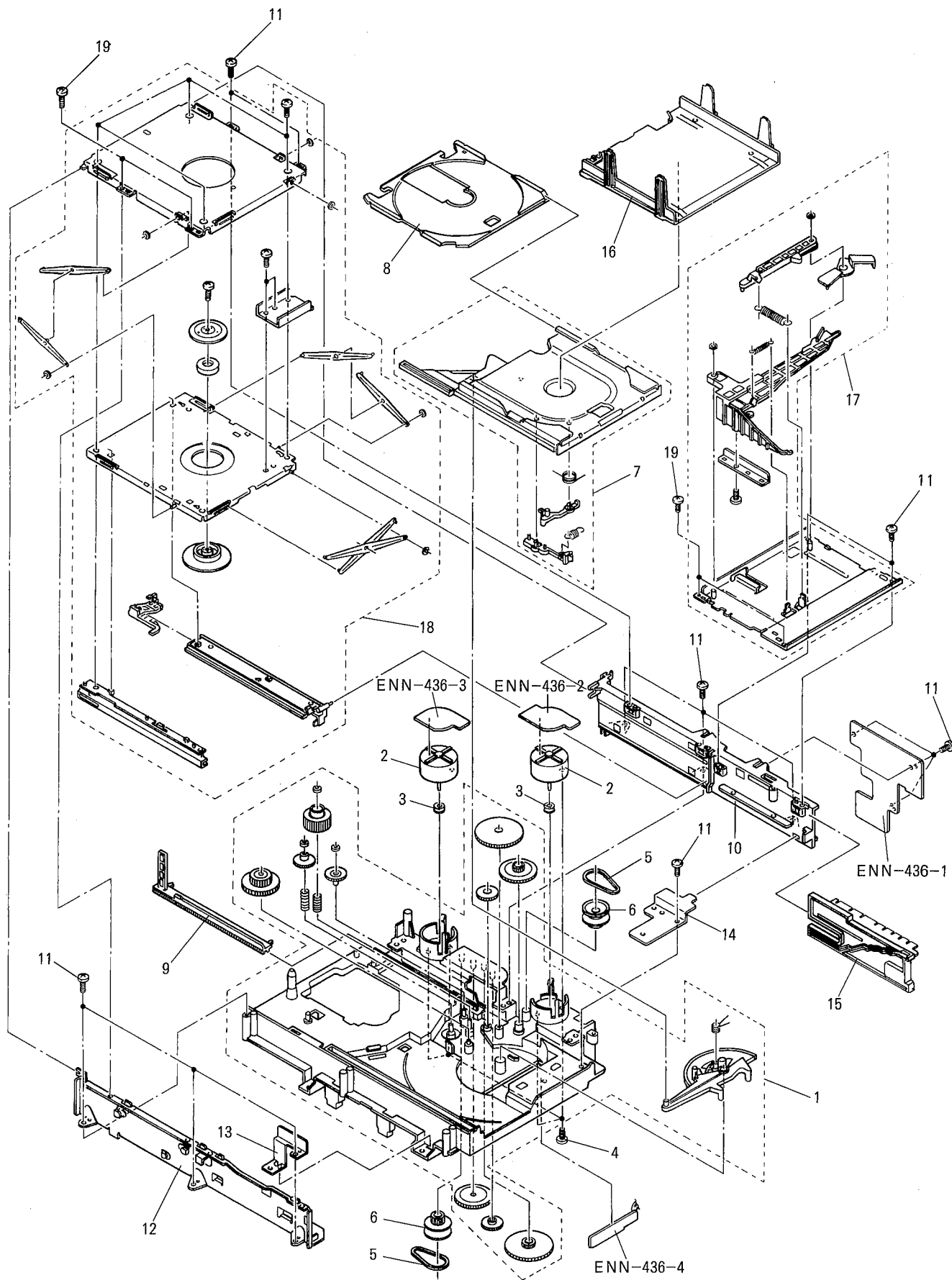
C Canada

No mark indicates all area.

CD Changer Mechanism Ass'y and Parts List

Symbol No.

| | | | |
|---|---|---|---|
| M | 2 | M | M |
|---|---|---|---|



■ PARTS LIST(Changer Mechanism)

Symbol No.

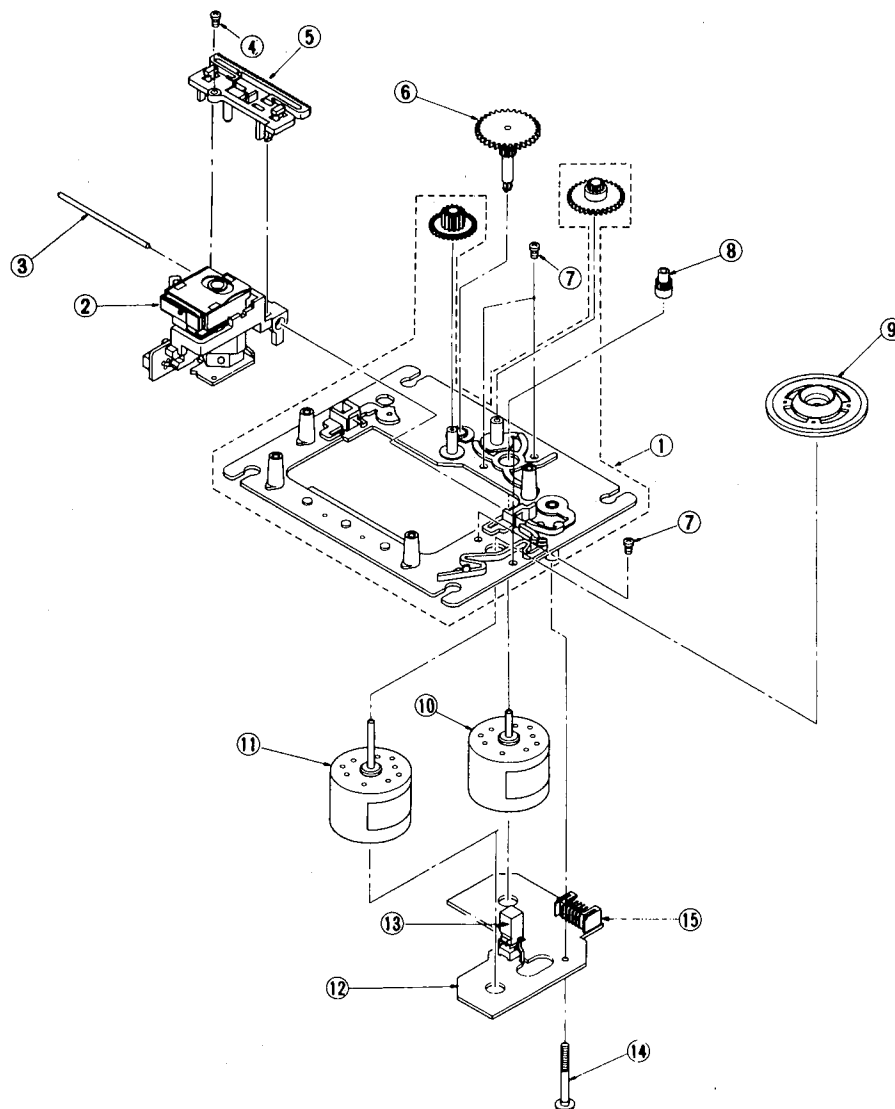
M 2 M M

| ⚠ | Item | Part Number | Part Name | Q'ty | Description | Area |
|---|------|----------------|--------------------|------|-------------|------|
| | 1 | E208436-001SM | MECHA BASE ASSY | 1 | | |
| | 2 | RF-500TB-14415 | DC MOTOR | 2 | | |
| | 3 | E75984-222SS | MOTOR PULLEY | 2 | | |
| | 4 | SPSP2604Z | SCREW | 4 | | |
| | 5 | E75950-002 | REEL BELT | 2 | | |
| | 6 | E75985-222SS | GEAR(1) | 2 | | |
| | 7 | E208456-001SM | TRAY BASE ASSY | 1 | | |
| | 8 | E26554-004 | CD TRAY | 1 | | |
| | 9 | E309148-002SM | HOOK GUIDE | 1 | | |
| | 10 | E102925-001SM | SIDE BRACKET (R) | 1 | | |
| | 11 | SBSF2608Z | TAPPING SCREW | 14 | | |
| | 12 | E208305-001SM | SIDE BRACKET (L) | 1 | | |
| | 13 | E408514-001SM | EARTH PLATE | 1 | | |
| | 14 | E408517-001SM | M. PLATE | 1 | | |
| | 15 | E208303-002SM | ELEVATOR CAM | 1 | | |
| | 16 | E208302-002SM | MAGAZINE GUIDE (B) | 1 | | |
| | 17 | E208458-002SM | SAFETY LEVER ASSY | 1 | | |
| | 18 | E102922-001SM | ELEVATOR ASSY | 1 | | |
| | 19 | SDST2606Z | SCREW | 4 | | |

CD Mechanism Ass'y and Parts List

Symbol No.

| | | | |
|---|---|---|---|
| M | 3 | M | M |
|---|---|---|---|



■ PARTS LIST(CD Mechanism)

Symbol No.

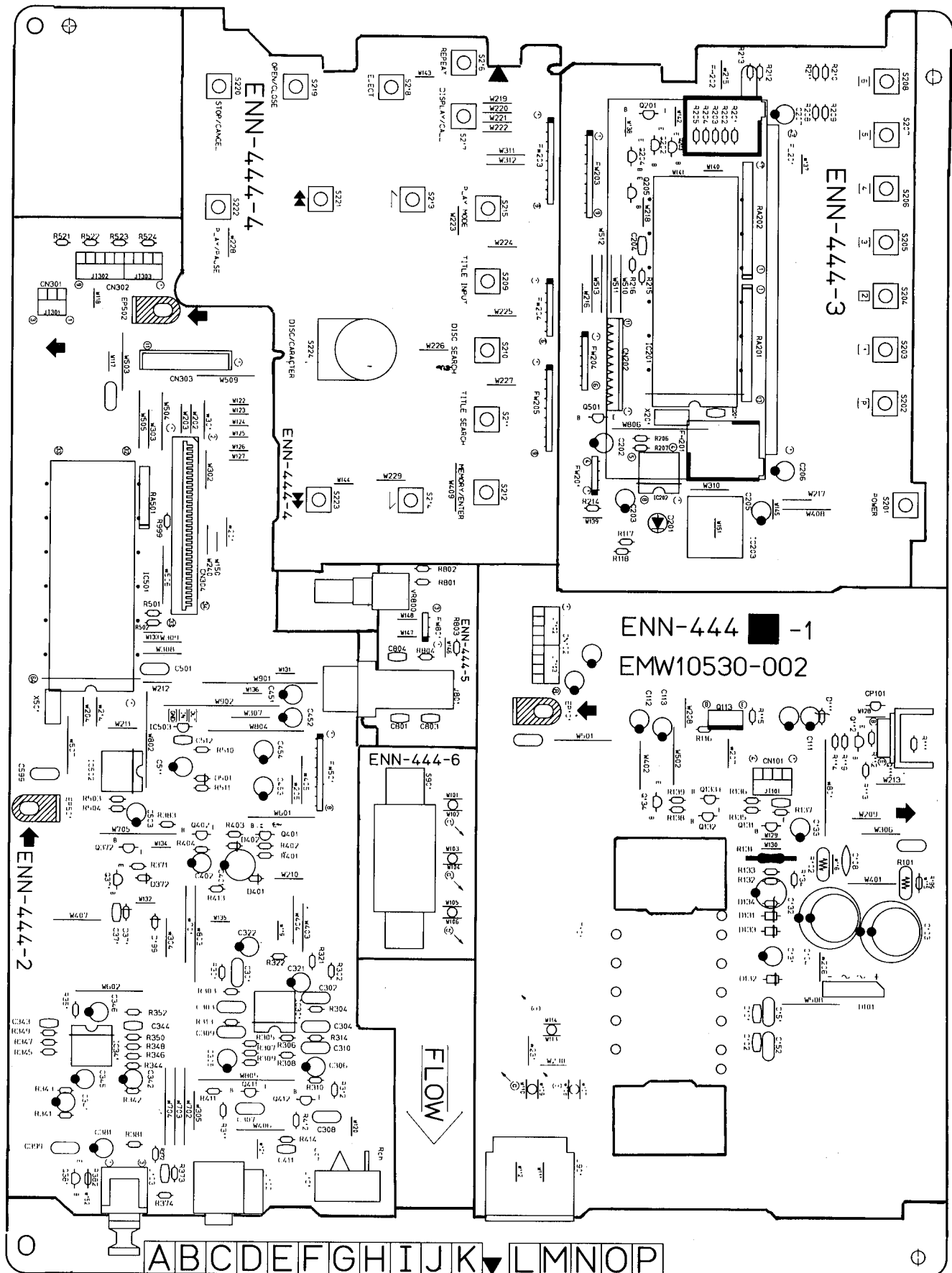
| | | | |
|---|---|---|---|
| M | 3 | M | M |
|---|---|---|---|

| Item | Part Number | Part Name | Q'ty | Description | Area |
|------|-----------------|------------------|------|-------------|------|
| 1 | EPB-002A | MECHA BASE | 1 | | |
| 2 | OPTIMA-6S | OPTICAL PICK-UP | 1 | | |
| 3 | E407782-001 | CD SHAFT | 1 | | |
| 4 | SDSF2006Z | SCREW | 1 | | |
| 5 | E307746-001 | CD RACK | 1 | | |
| 6 | E307745-221SS | CAM GEAR | 1 | | |
| 7 | SDSP2003N | SCREW | 4 | | |
| 8 | E406750-221SS | PINION GEAR | 1 | | |
| 9 | EPB309173A | TURNTABLE | 1 | | |
| 10 | MDN-4RA3ETA-1 | FEED MOTOR | 1 | | |
| 11 | E406783-001 | DC MOTOR | 1 | | |
| 12 | EMW10190-001(S) | PRINTED BOARD | 1 | | |
| 13 | EBS1100-005 | LEAF SWITCH | 1 | | |
| 14 | E75832-001 | SPECIAL SCREW | 1 | | |
| 15 | EMV5109-006B | CONNECT TERMINAL | 1 | | |

Printed Circuit Board Ass'y and Parts List

■ ENN-444 □ Main PC Board Assy

Note : ENC-444 □ varies according to the areas employed. See note (1) when placing an order.



Note (1)

| PC Board Ass'y | Version | Designated Areas |
|---|---------|------------------|
| ENN-444 I | C | Canada |
| ENN-444 J | J | the U.S.A. |

TRANSISTORS

| Δ | ITEM | PART NUMBER | DESCRIPTION | AREA |
|---|------|--------------|-------------------------|------|
| | Q111 | 2SB1187(F,G) | SI. TRANSIST ROHM | |
| | Q112 | 2SD1302 | SI. TRANSIST MATSUSHITA | |
| | Q113 | 2SB1357(E,F) | SI. TRANSIST ROHM | |
| | Q131 | 2SA933S(RS) | SI. TRANSIST | |
| | Q132 | 2SD2144S(VW) | SI. TRANSIST ROHM | |
| | Q133 | 2SD2144S(VW) | SI. TRANSIST ROHM | |
| | Q134 | DTA114YS | DIGITAL TRA ROHM | |
| | Q201 | DTA114YS | DIGITAL TRA ROHM | |
| | Q202 | DTA114YS | DIGITAL TRA ROHM | |
| | Q203 | DTA114YS | DIGITAL TRA ROHM | |
| | Q204 | DTA114YS | DIGITAL TRA ROHM | |
| | Q205 | DTA114YS | DIGITAL TRA ROHM | |
| | Q371 | DTC144ES | DIGITAL TRA ROHM | |
| | Q372 | DTA114YS | DIGITAL TRA ROHM | |
| | Q401 | 2SA933S(RS) | SI. TRANSIST | |
| | Q402 | DTC114YS | DIGITAL TRA ROHM | |
| | Q411 | 2SD1302 | SI. TRANSIST MATSUSHITA | |
| | Q412 | 2SD1302 | SI. TRANSIST MATSUSHITA | |
| | Q501 | DTC114YS | DIGITAL TRA ROHM | |

I. C. S.

| Δ | ITEM | PART NUMBER | DESCRIPTION | AREA |
|---|-------|---------------|------------------------|------|
| | IC201 | MN171202J6A | I.C(MICRO-C MATSUSHITA | |
| | IC202 | AT24C04-10PC | I.C(EP-ROM) MITSUBISHI | |
| | IC203 | SPS-420-1 | INFRARED DE SANYO | |
| | IC301 | NJM4580DD | I.C(MONO-AN DAINICHI | |
| | IC501 | MN171601J6B | I.C(MICRO-C MATSUSHITA | |
| | IC502 | AT24C01A-10PC | I.C(EP-ROM) MITSUBISHI | |
| | IC503 | PST9140T | I.C(MONO-AN MITSUMI | |

DIODES

| Δ | ITEM | PART NUMBER | DESCRIPTION | AREA |
|---|------|----------------|---------------------|------|
| | D101 | S1VB20F | SI. DIODE SINDENGEN | |
| | D111 | MTZ5.6JA | ZENER DIODE ROHM | |
| | D131 | 1SR35-200A | SI. DIODE ROHM | |
| | D132 | 1SR35-200A | SI. DIODE ROHM | |
| | D133 | 1SR35-200A | SI. DIODE ROHM | |
| | D134 | MTZ36JC | ZENER DIODE ROHM | |
| | D201 | SLH-56VC50F130 | L.E.D. | |
| | D371 | 1SS133 | SI. DIODE ROHM | |
| | D372 | 1SS133 | SI. DIODE ROHM | |
| | D401 | 1SS133 | SI. DIODE ROHM | |
| | D402 | 1SS133 | SI. DIODE ROHM | |
| | D501 | 1SS133 | SI. DIODE ROHM | |

CAPACITORS

| Δ | ITEM | PART NUMBER | DESCRIPTION | AREA |
|---|------|--------------|------------------------|------|
| | C101 | QCHB1EZ-223 | 0.022MF 25V CER.CAPACI | |
| | C102 | QCHB1EZ-223 | 0.022MF 25V CER.CAPACI | |
| | C103 | QETB1EM-228 | 2200MF 25V E.CAPACITO | |
| | C104 | QETB1EM-108 | 1000MF 25V AL E.CAPAC | |
| | C108 | QCF21HP-223A | 0.022MF 50V CER.CAPACI | |
| | C111 | QETB1HM-225 | 2.2MF 50V AL E.CAPAC | |
| | C112 | QETB1CM-476 | 47MF 16V AL E.CAPAC | |
| | C113 | QETB1AM-476 | 47MF 10V E.CAPACITO | |
| | C131 | QETB1EM-476 | 47MF 25V AL E.CAPAC | |
| | C132 | QETB1HM-107 | 100MF 50V E.CAPACITO | |
| | C133 | QETB1HM-106 | 10MF 50V E.CAPACITO | |
| | C201 | QCHB1EZ-223 | 0.022MF 25V CER.CAPACI | |
| | C202 | QER51HM-106 | 10MF 50V AL E.CAPAC | |
| | C203 | QER51EM-106 | 10MF 25V E.CAPACITO | |
| | C204 | QCHB1EZ-223 | 0.022MF 25V CER.CAPACI | |
| | C205 | QETB1EM-106 | 10MF 25V AL E.CAPAC | |
| | C206 | QETB1HM-105 | 1MF 50V AL E.CAPAC | |
| | C207 | QETB1HM-105 | 1MF 50V AL E.CAPAC | |
| | C301 | QFLB1HJ-332 | 3300PF 50V MYLAR CAPA | |
| | C302 | QFLB1HJ-332 | 3300PF 50V MYLAR CAPA | |

CAPACITORS

| Δ | ITEM | PART NUMBER | DESCRIPTION | AREA |
|---|------|--------------|------------------------|------|
| | C303 | QFLB1HJ-183 | 0.018MF 50V MYLAR CAPA | |
| | C304 | QFLB1HJ-183 | 0.018MF 50V MYLAR CAPA | |
| | C305 | QETB1AM-226 | 22MF 10V ELECTRO | |
| | C306 | QETB1AM-226 | 22MF 10V ELECTRO | |
| | C307 | QFLB1HJ-332 | 3300PF 50V MYLAR CAPA | |
| | C308 | QFLB1HJ-332 | 3300PF 50V MYLAR CAPA | |
| | C309 | QFLB1HJ-332 | 3300PF 50V MYLAR CAPA | |
| | C310 | QFLB1HJ-332 | 3300PF 50V MYLAR CAPA | |
| | C321 | QETB1EM-476 | 47MF 25V AL E.CAPAC | |
| | C322 | QETB1EM-476 | 47MF 25V AL E.CAPAC | |
| | C371 | QCB81HK-331V | 330PF 50V CER.CAPACI | |
| | C399 | QFV81HJ-104 | 0.1MF 50V THIN FILM | |
| | C401 | QETB1CM-227 | 220MF 16V AL E.CAPAC | |
| | C402 | QETB1CM-226 | 22MF 16V E.CAPACITO | |
| | C411 | QCHB1EZ-223 | 0.022MF 25V CER.CAPACI | |
| | C451 | QETB1EM-106 | 10MF 25V AL E.CAPAC | |
| | C452 | QETB1EM-106 | 10MF 25V AL E.CAPAC | |
| | C453 | QETB1EM-227 | 220MF 25V AL E.CAPAC | |
| | C454 | QETB1EM-227 | 220MF 25V AL E.CAPAC | |
| | C501 | QCZ0202-155 | 1.5MF 25V CER.RESIST | |
| | C503 | QETB1EM-106 | 10MF 25V AL E.CAPAC | |
| | C511 | QETB1EM-106 | 10MF 25V AL E.CAPAC | |
| | C512 | QCHB1EZ-223 | 0.022MF 25V CER.CAPACI | |

RESISTORS

| Δ | ITEM | PART NUMBER | DESCRIPTION | AREA |
|---|------|----------------|----------------------|------|
| | R101 | PTH61G30BD2R2N | FUSIBLE RE | C |
| | R102 | PTH61G30BD2R2N | FUSIBLE RE | C |
| | R111 | QRD161J-222 | 2.2K 1/6W CARBON RES | |
| | R112 | QRD161J-221 | 220 1/6W CARBON RES | |
| | R113 | QRD161J-221 | 220 1/6W CARBON RES | |
| | R114 | QRD161J-202 | 2K 1/6W CARBON RES | |
| | R115 | QRD161J-102 | 1K 1/6W CARBON RES | |
| | R116 | QRD161J-821 | 820 1/6W CARBON RES | |
| | R117 | QRD167J-1R5 | 1.5 1/6W CARBON RES | |
| | R118 | QRD167J-1R5 | 1.5 1/6W CARBON RES | |
| | R119 | QRD161J-202 | 2K 1/6W CARBON RES | |
| | R131 | QRZ0077-560 | 56 1/4W FUSIBLE RE | C |
| | R132 | QRD161J-362 | 3.6K 1/6W CARBON RES | |
| | R133 | QRD161J-362 | 3.6K 1/6W CARBON RES | |
| | R134 | QRD167J-121 | 120 1/6W CARBON RES | |
| | R135 | QRD161J-222 | 2.2K 1/6W CARBON RES | |
| | R136 | QRD161J-222 | 2.2K 1/6W CARBON RES | |
| | R137 | QRD161J-103 | 10K 1/6W CARBON RES | |
| | R138 | QRD161J-103 | 10K 1/6W CARBON RES | |
| | R139 | QRD161J-103 | 10K 1/6W CARBON RES | |
| | R198 | QRD161J-2R2 | 2.2 1/6W CARBON RES | J |
| | R199 | QRD161J-2R2 | 2.2 1/6W CARBON RES | J |
| | R201 | QRD161J-124 | 120K 1/6W CARBON RES | |
| | R202 | QRD161J-124 | 120K 1/6W CARBON RES | |
| | R203 | QRD161J-124 | 120K 1/6W CARBON RES | |
| | R204 | QRD161J-124 | 120K 1/6W CARBON RES | |
| | R205 | QRD161J-124 | 120K 1/6W CARBON RES | |
| | R206 | QRD161J-103 | 10K 1/6W CARBON RES | |
| | R207 | QRD161J-103 | 10K 1/6W CARBON RES | |
| | R208 | QRD161J-103 | 10K 1/6W CARBON RES | |
| | R209 | QRD161J-103 | 10K 1/6W CARBON RES | |
| | R210 | QRD161J-473 | 47K 1/6W CARBON RES | |
| | R211 | QRD161J-473 | 47K 1/6W CARBON RES | |
| | R212 | QRD161J-473 | 47K 1/6W CARBON RES | |
| | R213 | QRD161J-473 | 47K 1/6W CARBON RES | |
| | R214 | QRD161J-181 | 180 1/6W CARBON RES | |
| | R216 | QRD161J-103 | 10K 1/6W CARBON RES | |
| | R301 | QRD161J-621 | 620 1/6W CARBON RES | |
| | R302 | QRD161J-621 | 620 1/6W CARBON RES | |
| | R303 | QRD161J-561 | 560 1/6W CARBON RES | |
| | R304 | QRD161J-561 | 560 1/6W CARBON RES | |
| | R305 | QRD161J-183 | 18K 1/6W CARBON RES | |
| | R306 | QRD161J-183 | 18K 1/6W CARBON RES | |
| | R307 | QRD161J-273 | 27K 1/6W CARBON RES | |
| | R308 | QRD161J-273 | 27K 1/6W CARBON RES | |
| | R309 | QRD161J-561 | 560 1/6W CARBON RES | |
| | R310 | QRD161J-561 | 560 1/6W CARBON RES | |
| | R311 | QRD161J-101 | 100 1/6W CARBON RES | |
| | R312 | QRD161J-101 | 100 1/6W CARBON RES | |
| | R313 | QRD161J-821 | 820 1/6W CARBON RES | |
| | R314 | QRD161J-821 | 820 1/6W CARBON RES | |
| | R321 | QRD161J-221 | 220 1/6W CARBON RES | |
| | R322 | QRD161J-221 | 220 1/6W CARBON RES | |
| | R371 | QRD161J-472 | 4.7K 1/6W CARBON RES | |
| | R372 | QRD161J-221 | 220 1/6W CARBON RES | |
| | R373 | QRD161J-221 | 220 1/6W CARBON RES | |
| | R401 | QRD161J-331 | 330 1/6W CARBON RES | |
| | R402 | QRD167J-822 | 8.2K 1/6W CARBON RES | |
| | R403 | QRD161J-683 | 68K 1/6W CARBON RES | |
| | R404 | QRD161J-221 | 220 1/6W CARBON RES | |
| | R411 | QRD161J-103 | 10K 1/6W CARBON RES | |
| | R412 | QRD161J-103 | 10K 1/6W CARBON RES | |
| | R413 | QRD167J-154 | 150K 1/6W CARBON RES | |
| | R414 | QRD161J-684 | 680K 1/6W CARBON RES | |
| | R501 | QRD161J-103 | 10K 1/6W CARBON RES | |

RESISTORS

| Δ | ITEM | PART NUMBER | DESCRIPTION | AREA |
|---|-------|-------------|----------------------|------|
| | R503 | QRD161J-103 | 10K 1/6W CARBON RES | |
| | R504 | QRD161J-103 | 10K 1/6W CARBON RES | |
| | R510 | QRD161J-472 | 4.7K 1/6W CARBON RES | |
| | R511 | QRD161J-102 | 1K 1/6W CARBON RES | |
| | R521 | QRD161J-473 | 47K 1/6W CARBON RES | |
| | R522 | QRD161J-473 | 47K 1/6W CARBON RES | |
| | R523 | QRD161J-473 | 47K 1/6W CARBON RES | |
| | R524 | QRD161J-473 | 47K 1/6W CARBON RES | |
| | R999 | QRD161J-102 | 1K 1/6W CARBON RES | |
| | RA501 | GRS089J-103 | 10K 1/10W NETWORK RE | |

OTHERS

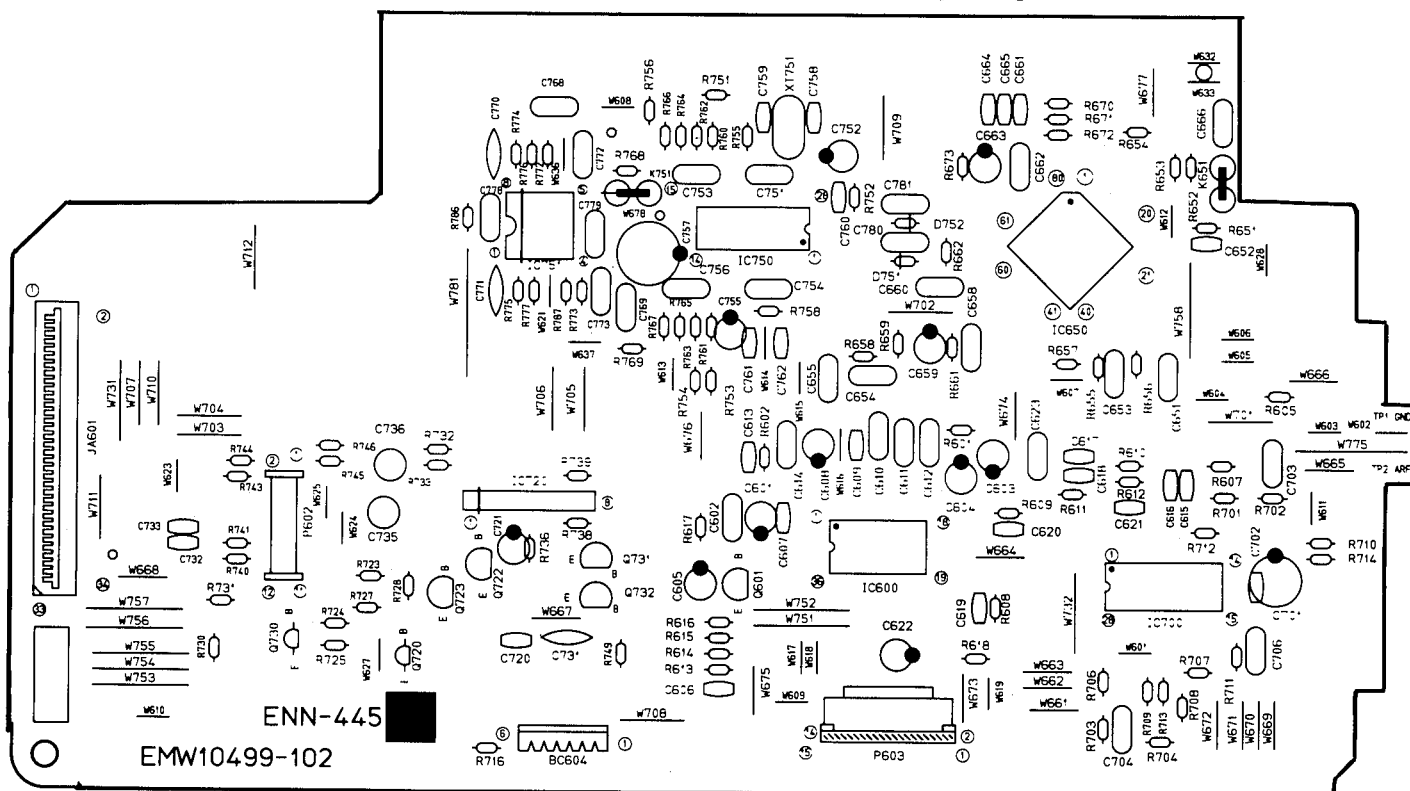
| Δ | ITEM | PART NUMBER | DESCRIPTION | AREA |
|---|-------|---------------|-------------|------|
| | X201 | ECX0060-000EM | CERAMIC RES | |
| | X501 | ECX0060-000EM | CERAMIC RES | |
| | CN202 | EWS26B-A450J | SOCKET WIRE | |
| | CN303 | EMV5109-011A | MALE CONNEX | |
| | CN304 | EMV7123-034 | CONNECT TER | |
| Δ | CP101 | 1CP-N10 | I.C.PROTECT | C |
| | EP501 | EMZ4002-001Z | EARTH PLATE | |
| | FH201 | E75819-001 | SUPPORT HOL | |
| | FH202 | E75820-001 | SUPPORT HOL | |
| | FL201 | ELU0001-204 | FLUORESCENT | |
| | FS201 | E3400-439 | FELT SPACER | |
| | FS202 | E3400-439 | FELT SPACER | |
| | FW201 | EWR34D-25LS | FLAT WIRE A | |
| | FW203 | EWR39D-50SS | FLAT WIRE A | |
| | FW204 | EWR36D-55SS | FLAT WIRE A | |
| | FW205 | EWR39D-16LS | FLAT WIRE A | |
| | FW501 | EWR38D-40LS | FLAT WIRE A | |
| | JT101 | EMV7145-004Z | SOCKET ASSY | |
| | JT102 | EMV7145-004Z | SOCKET ASSY | |
| | JT103 | EMV7145-004Z | SOCKET ASSY | |
| | JT301 | EMV7122-103 | CONNECT TER | |
| | JT302 | EMV7122-005 | MALE CONNEX | |
| | JT303 | EMV7145-004Z | SOCKET ASSY | |

OTHERS

| Δ | ITEM | PART NUMBER | DESCRIPTION | AREA |
|---|------|----------------|---------------------------|------|
| | | EMW10530-002 | PRINTED BOA | |
| | | E70306-001 | HEAT SINK | |
| | | SBSE3008Z | SCREW | |
| | J101 | EMN00TV-217A | PIN JACK | |
| | J102 | QMS3501-020 | PIN JACK | |
| Δ | J901 | GMCB001-E03H | AC INLET | |
| | S201 | QSQ1001-E01ZJ7 | PUSH SWITCH POWER | |
| | S202 | QSQ1001-E01ZJ7 | PUSH SWITCH P | |
| | S203 | QSQ1001-E01ZJ7 | PUSH SWITCH 1 | |
| | S204 | QSQ1001-E01ZJ7 | PUSH SWITCH 2 | |
| | S205 | QSQ1001-E01ZJ7 | PUSH SWITCH 3 | |
| | S206 | QSQ1001-E01ZJ7 | PUSH SWITCH 4 | |
| | S207 | QSQ1001-E01ZJ7 | PUSH SWITCH 5 | |
| | S208 | QSQ1001-E01ZJ7 | PUSH SWITCH 6 | |
| | S209 | QSQ1001-E01ZJ7 | PUSH SWITCH TITLE INPUT | |
| | S210 | QSQ1001-E01ZJ7 | PUSH SWITCH DISC SEARCH | |
| | S211 | QSQ1001-E01ZJ7 | PUSH SWITCH TITLE SEARCH | |
| | S212 | QSQ1001-E01ZJ7 | PUSH SWITCH MEMORY/ENTER | |
| | S213 | QSQ1001-E01ZJ7 | PUSH SWITCH < | |
| | S214 | QSQ1001-E01ZJ7 | PUSH SWITCH > | |
| | S215 | QSQ1001-E01ZJ7 | PUSH SWITCH PLAY MODE | |
| | S216 | QSQ1001-E01ZJ7 | PUSH SWITCH REPAT | |
| | S217 | QSQ1001-E01ZJ7 | PUSH SWITCH DISLAY/CALL | |
| | S218 | QSQ1001-E01ZJ7 | PUSH SWITCH EJECT | |
| | S219 | QSQ1001-E01ZJ7 | PUSH SWITCH OPEN/CLOSE | |
| | S220 | QSQ1001-E01ZJ7 | PUSH SWITCH STOP/CANCEL | |
| | S221 | QSQ1001-E01ZJ7 | PUSH SWITCH << | |
| | S222 | QSQ1001-E01ZJ7 | PUSH SWITCH >> | |
| | S223 | QSQ1001-E01ZJ7 | PUSH SWITCH PLAY/PAUSE | |
| | S224 | QSQ1001-E01ZJ7 | PUSH SWITCH DISC/CARACTER | |

■ ENN-445 □ CD PC Board Ass'y

Note : ENN445 □ varies according to the areas employed. See note (2) when placing an order.



Note (2)

| PC Board Ass'y | Version | Designated Areas |
|------------------|---------|------------------|
| ENN-445 I | C | Canada |
| ENN-445 J | J | the U.S.A. |

TRANSISTORS

| Δ | ITEM | PART NUMBER | DESCRIPTION | AREA |
|---|------|--------------|---------------------|------|
| | Q601 | 2SA950(Q,Y) | SI.TRANSIST TOSHIBA | |
| | Q722 | 2SC2060(Q,R) | SI.TRANSIST ROHM | |
| | Q723 | 2SA934(Q,R) | SI.TRANSIST ROHM | |
| | Q730 | DT144ES | DIGITAL TRA ROHM | |
| | Q731 | 2SC2060(Q,R) | SI.TRANSIST ROHM | |
| | Q732 | 2SA934(Q,R) | SI.TRANSIST ROHM | |

I. C. S.

| Δ | ITEM | PART NUMBER | DESCRIPTION | AREA |
|---|-------|-------------|------------------------|------|
| | IC600 | AN8806SB | I.C(M) MATSUSHITA | |
| | IC650 | MN662720RB | I.C(DIGI-MO MATSUSHITA | |
| | IC700 | BA6398FP | I.C(MONO-AN ROHM | |
| | IC720 | VC4580L | I.C(MONO-AN DAINICHI | |
| | IC750 | MN35503 | I.C(DIGI-MO MATSUSHITA | |
| | IC751 | NJM4580DD | I.C(MONO-AN DAINICHI | |

DIODES

| Δ | ITEM | PART NUMBER | DESCRIPTION | AREA |
|---|------|-------------|-------------|------|
| | D751 | 1SS119 | SI.DIODE | |
| | D752 | 1SS119 | SI.DIODE | |

CAPACITORS

| Δ | ITEM | PART NUMBER | DESCRIPTION | AREA |
|---|------|---------------|------------------------|------|
| | C601 | QETB1AM-107 | 100MF 10V AL E.CAPAC | |
| | C602 | QCZ0202-155 | 1.5MF 25V CER.RESIST | |
| | C604 | QETB1AM-107 | 100MF 10V AL E.CAPAC | |
| | C605 | QER51VM-106 | 10MF 35V AL E.CAPAC | |
| | C606 | QCHB1EZ-223 | 0.022MF 25V CER.CAPACI | |
| | C607 | QCSB1HJ-680 | 68PF 50V CER.CAPACI | |
| | C608 | QETB1HM-105 | 1MF 50V AL E.CAPAC | |
| | C609 | QCB81HK-101Y | 100PF 50V CER.CAPACI | |
| | C610 | QFLB1HJ-273 | 0.027MF 50V MYLAR CAPA | |
| | C611 | QFLB1HJ-472 | 4700PF 50V MYLAR CAPA | |
| | C612 | QFLB1HJ-332 | 3300PF 50V MYLAR CAPA | |
| | C613 | QCT30CH-3R3Y | 3.3PF 50V CER.CAPACI | |
| | C614 | QFV81HJ-104 | 0.1MF 50V THIN FILM | |
| | C615 | QCHB1EZ-223 | 0.022MF 25V CER.CAPACI | |
| | C616 | QCHB1EZ-223 | 0.022MF 25V CER.CAPACI | |
| | C617 | QCHB1EZ-223 | 0.022MF 25V CER.CAPACI | |
| | C618 | QCB81CM-222Y | 2200PF 16V CER.CAPACI | |
| | C619 | QCB81HK-271Y | 270PF 50V CER.CAPACI | |
| | C620 | QCSB1HJ-470 | 47PF 50V CER.CAPACI | |
| | C621 | QCB81HK-821Y | 820PF 50V CER.CAPACI | |
| | C622 | QETB1AM-476 | 47MF 10V E.CAPACITO | |
| | C623 | QFV81HJ-104 | 0.1MF 50V THIN FILM | |
| | C651 | QFLB1HJ-471 | 470PF 50V MYLAR CAPA | |
| | C652 | QCHB1EZ-223 | 0.022MF 25V CER.CAPACI | |
| | C653 | QFLB1HJ-223 | 0.022MF 50V MYLAR CAPA | |
| | C654 | QFLB1HJ-223 | 0.022MF 50V MYLAR CAPA | |
| | C655 | QFV81HJ-334 | 0.33MF 50V TF.CAPACIT | |
| | C658 | QFV81HJ-104 | 0.1MF 50V THIN FILM | |
| | C659 | QETB1AM-107 | 100MF 10V AL E.CAPAC | |
| | C660 | QFLB1HJ-223 | 0.022MF 50V MYLAR CAPA | |
| | C662 | QFV81HJ-104 | 0.1MF 50V THIN FILM | |
| | C663 | QETB1AM-107 | 100MF 10V AL E.CAPAC | |
| | C701 | QETB1CM-227 | 220MF 16V AL E.CAPAC | |
| | C702 | QCHB1EZ-223 | 0.022MF 25V CER.CAPACI | |
| | C703 | QFLB1HJ-273 | 0.027MF 50V MYLAR CAPA | |
| | C704 | QFLB1HJ-183 | 0.018MF 50V MYLAR CAPA | |
| | C706 | QFLB1HJ-273 | 0.027MF 50V MYLAR CAPA | |
| | C720 | QCHB1EZ-223 | 0.022MF 25V CER.CAPACI | |
| | C721 | QETB1CM-476 | 47MF 16V AL E.CAPAC | |
| | C722 | QCS21HJ-101A | 100PF 50V CER.CAPACI | |
| | C731 | QCF21HP-223A | 0.022MF 50V CER.CAPACI | |
| | C732 | QCHB1EZ-223 | 0.022MF 25V CER.CAPACI | |
| | C733 | QETB1HM-105 | 1MF 50V AL E.CAPAC | |
| | C735 | QETC1HM-225ZN | 2.2MF 50V AL E.CAPAC | |
| | C736 | QETC1HM-225ZN | 2.2MF 50V AL E.CAPAC | |

CAPACITORS

| Δ | ITEM | PART NUMBER | DESCRIPTION | AREA |
|---|------|--------------|------------------------|------|
| | C751 | QCZ0202-155 | 1.5MF 25V CER.RESIST | |
| | C752 | QETB1AM-476 | 47MF 10V E.CAPACITO | |
| | C753 | QCZ0202-155 | 1.5MF 25V CER.RESIST | |
| | C754 | QCZ0202-155 | 1.5MF 25V CER.RESIST | |
| | C755 | QETB0JM-227 | 220MF 6.3V E.CAPACITO | |
| | C756 | QCZ0202-155 | 1.5MF 25V CER.RESIST | |
| | C757 | QETB0JM-108E | 1000MF 6.3V E.CAPACITO | |
| | C758 | QCT30CH-180Y | 18PF 50V CER.CAPACI | |
| | C759 | QCT30CH-180Y | 18PF 50V CER.CAPACI | |
| | C768 | QFLB1HJ-222 | 2200PF 50V MYLAR CAPA | |
| | C769 | QFLB1HJ-222 | 2200PF 50V MYLAR CAPA | |
| | C770 | QCS31HJ-331Z | 330PF 50V CER.CAPACI | |
| | C771 | QCS31HJ-331Z | 330PF 50V CER.CAPACI | |
| | C772 | QFLB1HJ-333 | 0.033MF 50V MYLAR CAPA | |
| | C773 | QFLB1HJ-333 | 0.033MF 50V MYLAR CAPA | |
| | C778 | QFV81HJ-104 | 0.1MF 50V THIN FILM | |
| | C779 | QFV81HJ-104 | 0.1MF 50V THIN FILM | |
| | C780 | QCZ0202-155 | 1.5MF 25V CER.RESIST | |

RESISTORS

| Δ | ITEM | PART NUMBER | DESCRIPTION | AREA |
|---|------|--------------|----------------------|------|
| | R602 | QRD161J-123 | 12K 1/6W CARBON RES | |
| | R605 | QRD167J-134 | 130K 1/6W CARBON RES | |
| | R607 | QRD161J-913 | 91K 1/6W CARBON RES | |
| | R608 | QRD161J-273 | 27K 1/6W CARBON RES | |
| | R609 | QRD161J-114 | 110K 1/6W CARBON RES | |
| | R610 | QRD167J-154 | 150K 1/6W CARBON RES | |
| | R611 | QRD161J-394 | 390K 1/6W CARBON RES | |
| | R612 | QRD161J-103 | 10K 1/6W CARBON RES | |
| | R613 | QRD167J-121 | 120 1/6W CARBON RES | |
| | R614 | QRD161J-470 | 47 1/6W CARBON RES | |
| | R615 | QRD161J-470 | 47 1/6W CARBON RES | |
| | R616 | QRD161J-470 | 47 1/6W CARBON RES | |
| | R617 | QRD161J-2R2 | 2.2 1/6W CARBON RES | |
| | R618 | QRD161J-910Y | 91 1/6W CARBON RES | |
| | R651 | QRD161J-102 | 1K 1/6W CARBON RES | |
| | R652 | QRD161J-102 | 1K 1/6W CARBON RES | |
| | R653 | QRD161J-102 | 1K 1/6W CARBON RES | |
| | R654 | QRD161J-471 | 470 1/6W CARBON RES | |
| | R655 | QRD167J-155 | 1.5M 1/6W CARBON RES | |
| | R656 | QRD161J-104 | 100K 1/6W CARBON RES | |
| | R657 | QRD161J-104 | 100K 1/6W CARBON RES | |
| | R658 | QRD161J-681 | 680 1/6W CARBON RES | |
| | R659 | QRD161J-124 | 120K 1/6W CARBON RES | |
| | R661 | QRD161J-2R2 | 2.2 1/6W CARBON RES | |
| | R662 | QRD161J-2R2 | 2.2 1/6W CARBON RES | |
| | R670 | QRD161J-102 | 1K 1/6W CARBON RES | |
| | R671 | QRD161J-102 | 1K 1/6W CARBON RES | |
| | R672 | QRD161J-102 | 1K 1/6W CARBON RES | |
| | R673 | QRD161J-472 | 4.7K 1/6W CARBON RES | |
| | R701 | QRD161J-821 | 820 1/6W CARBON RES | |
| | R702 | QRD167J-562 | 5.6K 1/6W CARBON RES | |
| | R703 | QRD161J-112 | 1.1K 1/6W CARBON RES | |
| | R704 | QRD167J-113 | 11K 1/6W CARBON RES | |
| | R706 | QRD161J-124 | 120K 1/6W CARBON RES | |
| | R707 | QRD167J-332 | 3.3K 1/6W CARBON RES | |
| | R708 | QRD161J-752 | 7.5K 1/6W CARBON RES | |
| | R709 | QRD167J-223 | 22K 1/6W CARBON RES | |
| | R710 | QRD161J-392 | 3.9K 1/6W CARBON RES | |
| | R711 | QRD167J-153 | 15K 1/6W CARBON RES | |
| | R712 | QRD161J-752 | 7.5K 1/6W CARBON RES | |
| | R713 | QRD167J-751 | 750 1/6W CARBON RES | |
| | R714 | QRD161J-363 | 36K 1/6W CARBON RES | |
| | R716 | QRD167J-151 | 150 1/6W CARBON RES | |
| | R723 | QRD167J-223 | 22K 1/6W CARBON RES | |
| | R724 | QRD161J-303Y | 30K 1/6W CARBON RES | |
| | R725 | QRD161J-183 | 18K 1/6W CARBON RES | |
| | R726 | QRD167J-272 | 2.7K 1/6W CARBON RES | |
| | R727 | QRD161J-183 | 18K 1/6W CARBON RES | |
| | R728 | QRD161J-221 | 220 1/6W CARBON RES | |
| | R730 | QRD161J-363 | 36K 1/6W CARBON RES | |
| | R731 | QRD167J-153 | 15K 1/6W CARBON RES | |
| | R732 | QRD167J-153 | 15K 1/6W CARBON RES | |
| | R733 | QRD161J-303Y | 30K 1/6W CARBON RES | |
| | R736 | QRD161J-363 | 36K 1/6W CARBON RES | |
| | R738 | QRD161J-363 | 36K 1/6W CARBON RES | |
| | R739 | QRD167J-751 | 750 1/6W CARBON RES | |
| | R740 | QRD161J-102 | 1K 1/6W CARBON RES | |
| | R741 | QRD161J-221 | 220 1/6W CARBON RES | |
| | R743 | QRD161J-102 | 1K 1/6W CARBON RES | |
| | R744 | QRD161J-102 | 1K 1/6W CARBON RES | |
| | R745 | QRD161J-102 | 1K 1/6W CARBON RES | |
| | R746 | QRD161J-102 | 1K 1/6W CARBON RES | |
| | R749 | QRD161J-2R2 | 2.2 1/6W CARBON RES | |
| | R751 | QRD161J-101 | 100 1/6W CARBON RES | |
| | R752 | QRD161J-102 | 1K 1/6W CARBON RES | |
| | R753 | QRD167J-560 | 56 1/6W CARBON RES | |
| | R755 | QRD161J-271 | 270 1/6W CARBON RES | |
| | R756 | QRD161J-101 | 100 1/6W CARBON RES | |
| | R758 | QRD161J-271 | 270 1/6W CARBON RES | |
| Δ | R760 | QRV144F-1602 | 16K 1/4W CONST.META | |
| Δ | R761 | QRV144F-1602 | 16K 1/4W CONST.META | |
| | R762 | QRD161J-243 | 24K 1/6W CARBON RES | |
| | R763 | QRD161J-243 | 24K 1/6W CARBON RES | |
| Δ | R764 | QRV144F-1602 | 16K 1/4W CONST.META | |
| Δ | R765 | QRV144F-1602 | 16K 1/4W CONST.META | |

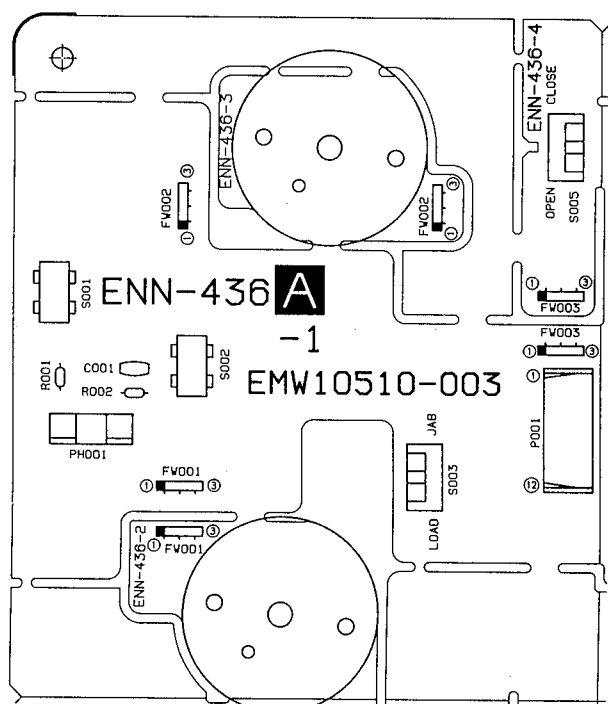
RESISTORS

| Δ | ITEM | PART NUMBER | DESCRIPTION | AREA |
|---|------|-------------|----------------------|------|
| | R766 | QRD161J-243 | 24K 1/6W CARBON RES | |
| | R767 | QRD161J-243 | 24K 1/6W CARBON RES | |
| | R768 | QRD167J-682 | 6.8K 1/6W CARBON RES | |
| | R769 | QRD167J-682 | 6.8K 1/6W CARBON RES | |
| | R772 | QRD161J-362 | 3.6K 1/6W CARBON RES | |
| | R773 | QRD161J-362 | 3.6K 1/6W CARBON RES | |
| | R774 | QRD161J-183 | 18K 1/6W CARBON RES | |
| | R775 | QRD161J-183 | 18K 1/6W CARBON RES | |
| | R776 | QRD161J-621 | 620 1/6W CARBON RES | |
| | R777 | QRD161J-621 | 620 1/6W CARBON RES | |
| | R786 | QRD161J-271 | 270 1/6W CARBON RES | |
| | R787 | QRD161J-2R2 | 2.2 1/6W CARBON RES | |

OTHERS

| Δ | ITEM | PART NUMBER | DESCRIPTION | AREA |
|---|-------|---------------|-------------|------|
| | P602 | EMW10499-102 | PRINTED BOA | |
| | P603 | VMC0314-S12 | CONNECT TER | |
| | BC604 | EMV7144-015R | CONNECT TER | |
| | FS720 | EWS266-A408J | FLAT WIRE A | |
| | JA601 | E3400-431 | FELT SPACER | |
| | XT751 | EMV7123-034 | CONNECT TER | |
| | | ECX0169-344KL | CRYSTAL | |

■ ENN-436 A CD Changer PC Board Ass'y



CAPACITORS

| Δ | ITEM | PART NUMBER | DESCRIPTION | AREA |
|---|------|-------------|------------------------|------|
| | C001 | QCHB1EZ-223 | 0.022MF 25V CER.CAPACI | |

RESISTORS

| Δ | ITEM | PART NUMBER | DESCRIPTION | AREA |
|---|------|-------------|----------------------|------|
| | R001 | QRD161J-331 | 330 1/6W CARBON RES | |
| | R002 | QRD161J-472 | 4.7K 1/6W CARBON RES | |

OTHERS

| Δ | ITEM | PART NUMBER | DESCRIPTION | AREA |
|---|-------|--------------|--------------|------|
| | P001 | EMW10510-003 | CIR.BOARD | |
| | S001 | EMV5132-012R | CONNECT TER | |
| | S002 | QSEC001-E03 | LEVER SWITC | |
| | S003 | QSEC001-E03 | LEVER SWITC | |
| | S005 | ESS1200-002 | LEVER SWITC | |
| | FW001 | ESS1200-002 | LEVER SWITC | |
| | FW002 | EWR33D-08SS | FLAT WIRE A | |
| | FW003 | EWR33D-08SS | FLAT WIRE A | |
| | FW003 | EWR33D-13SS | FLAT WIRE | |
| | PH001 | GP1A53HR | I.C.(PHOTO-I | |

Accessories List

Symbol No. M 4 M M

| Δ | Item | Part Number | Part Name | Q'ty | Description | Area |
|---|------|---------------|--------------------------|------|-------------|------|
| | 1 | E30580-2290B | INSTRUCTION BOOK | 1 | | J |
| | | E30580-2291A | INSTRUCTION BOOK | 1 | | C |
| | 2 | RM-SX417U | WIRE-LESS REMOTE CONTROL | 1 | | |
| | 3 | R6PRPA-2TSA | BATTERY | 2 | | |
| | 4 | EWP302-011 | SIGNAL CORD | 1 | | |
| | 5 | EWP805-012 | PLUG WIRE ASSY | 1 | | |
| | 6 | QMP1E00-183J5 | POWER CORD | 1 | | |
| | 7 | E26072-020 | CD MAGAZINE | 1 | | |
| | 8 | E309445-002 | MAGAZINE LABEL | 1 | | |
| | 9 | E300196-010B | ENVELOPE | 2 | | |
| | - | BT-20025M | WARRANTY CARD | 1 | | C |
| | - | BT-20071B | SERVICE NETWORK | 1 | | C |
| | - | BT-20044G | SAFETY SHEET | 1 | | J |
| | - | BT-51006-1 | REGISTER CARD | 1 | | J |

The Marks for Designated Areas

J the U.S.A.

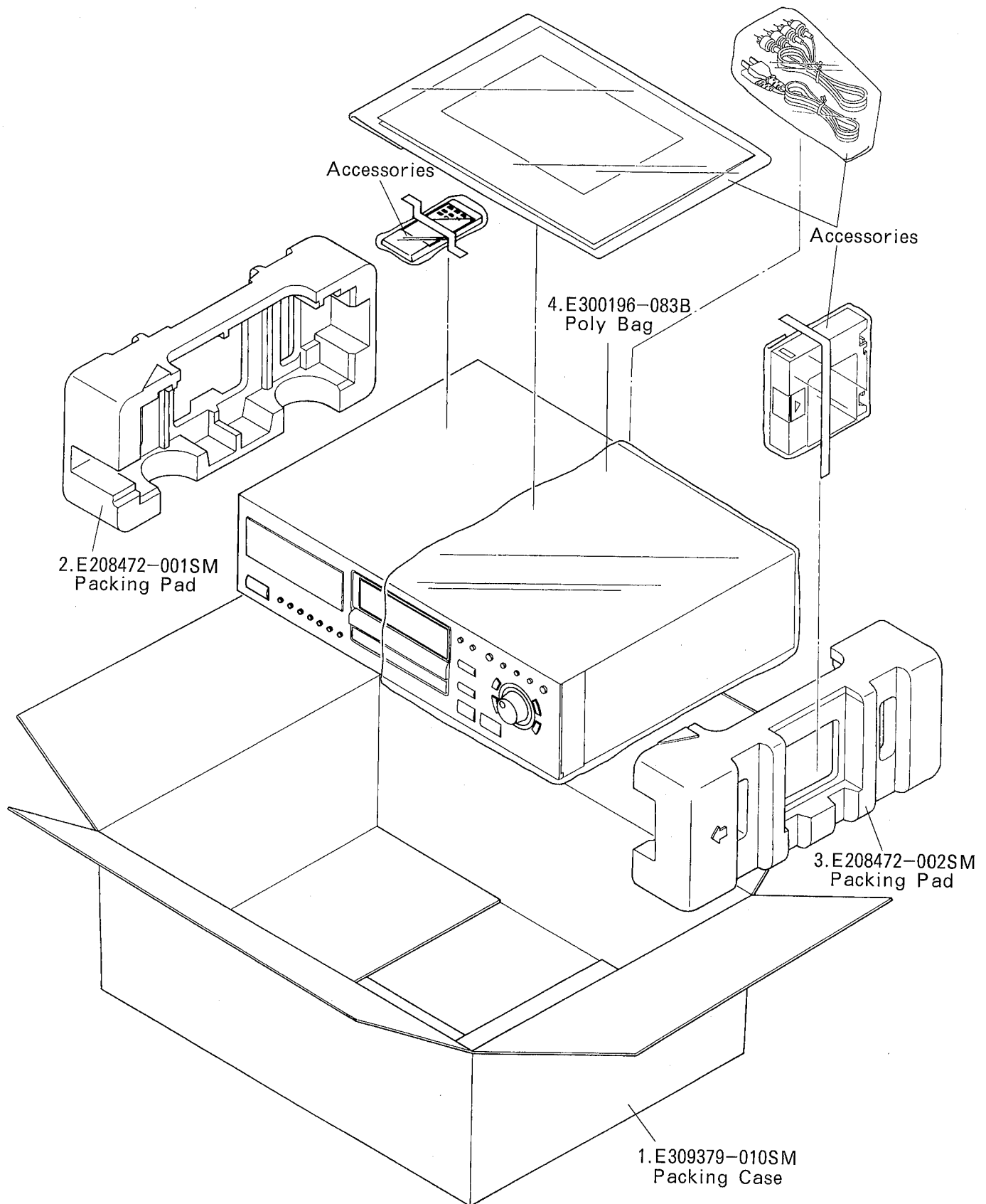
C Canada

No mark indicates all area.

Packing Materials and Part Numbers

Symbol No.

| | | | |
|---|---|---|---|
| M | 5 | M | M |
|---|---|---|---|



PARTS LIST

Note : All printed circuit boards assemblies are not available as service parts.

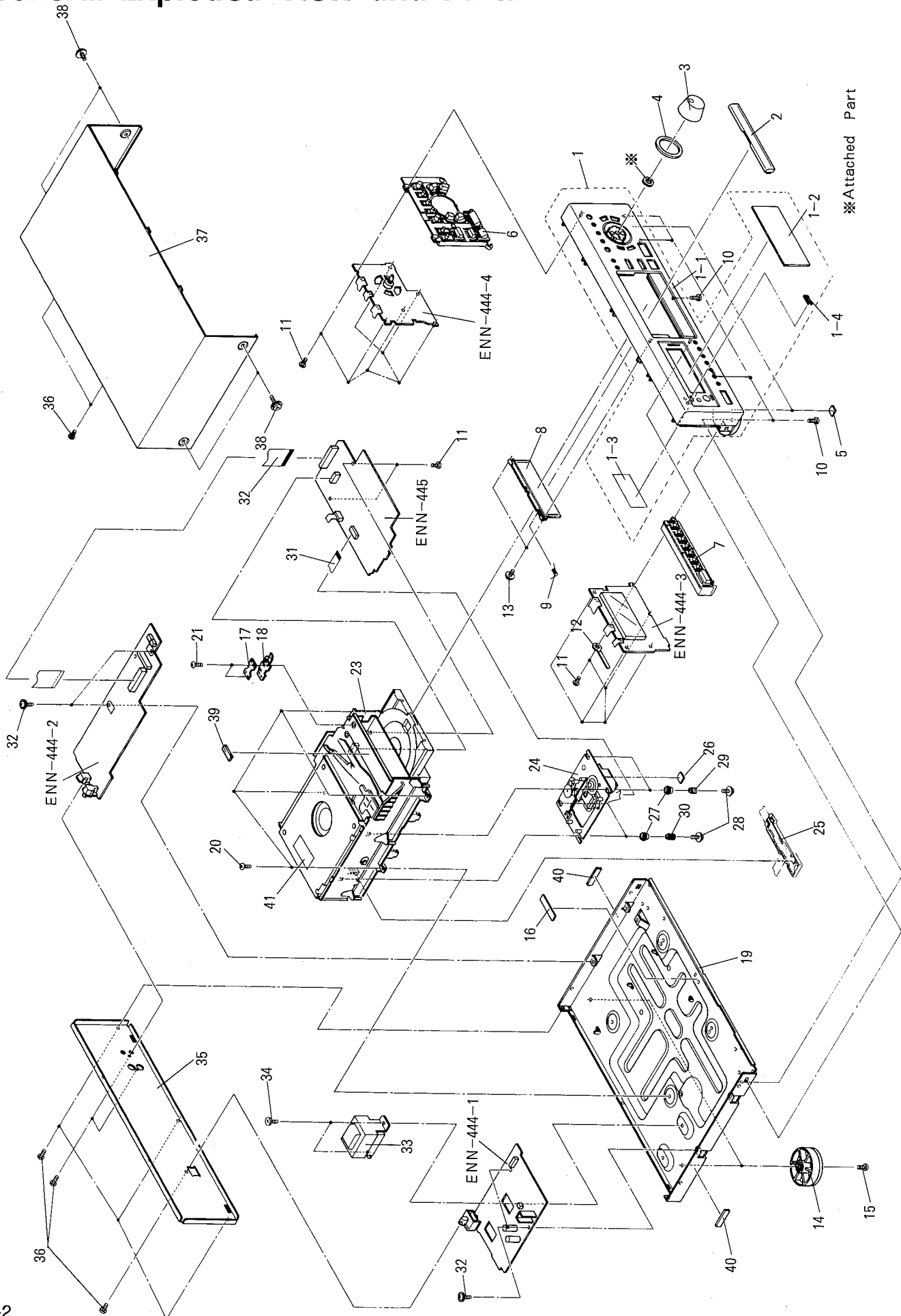
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General Exploded View and Parts List

Symbol No.

| | | | |
|---|---|---|---|
| M | 1 | M | M |
|---|---|---|---|



PARTS LIST

Symbol No.

| | | | |
|---|---|---|---|
| M | 1 | M | M |
|---|---|---|---|

| Item | Part Number | Part Name | Q'ty | Description | Area |
|------|-----------------|--------------------------|------|--------------------|------|
| 1 | EFP-XLM317TNJ(S | FRONT PANEL ASS'Y | 1 | | |
| 1-1 | E103004-012SM | FRONT PANEL | 1 | | |
| 1-2 | E309341-008SM | WINDOW SCREEN | 1 | | |
| 1-3 | E408594-001SM | FLOURESCENT DISPL.SCREEN | 1 | | |
| 1-4 | VJD5429-001 | JVC MARK | 1 | | |
| 2 | E309345-003SM | C.D FITTING | 1 | | |
| 3 | E309339-001SM | KNOB | 1 | | |
| 4 | E408778-002SM | SHEET ASS'Y | 1 | | |
| 5 | E75896-001 | SPACER | 2 | FRONT FOOT | |
| 6 | E208468-001SM | PUSH BUTTON | 1 | PLAY/PAUSE | |
| 7 | E208466-001SM | PUSH BUTTON | 1 | POWER | |
| 8 | E309343-001SM | LID PLATE | 1 | | |
| 9 | E73534-001 | SPRING | 1 | | |
| 10 | SDSG3006M | TAPPING SCREW | 5 | | |
| 11 | SDSF2608Z | SCREW | 13 | | |
| 12 | E407469-001SS | WIRE CLAMP | 1 | | |
| 13 | E72405-001 | SPECIAL SCREW | 2 | | |
| 14 | VJF4039-00E | FOOT | 2 | | |
| 15 | SBST3008Z | TAPPING SCREW | 2 | FOR FOOT | |
| 16 | E306805-134 | SPACER | 1 | CHASSIS BASE | |
| 17 | E408823-001SM | SUPPORT BRACKET | 1 | | |
| 18 | E309520-001SM | LEAF SPRING | 1 | | |
| 19 | E103006-001SM | CHASSIS BASE | 1 | | |
| 20 | SBSG3008Z | TAPPING SCREW | 4 | | |
| 21 | SBSF3008Z | TAPPING SCREW | 2 | | |
| 22 | VWF1234-16TTB | FFC CABLE | 1 | | |
| 23 | ----- | CD-CH MECHA | 1 | SEE PAGE 4-4 | |
| 24 | ----- | CD MECH | 1 | SEE PAGE 4-6 | |
| 25 | E308181-221SS | FFC HOLDER | 1 | | |
| 26 | E306805-163 | SPACER | 1 | CD MECH P.C.B | |
| 27 | E407153-001 | INSULATOR | 4 | | |
| 28 | E408361-001 | SCREW | 4 | | |
| 29 | E408373-001 | SPRING(BLACK) | 2 | | |
| 30 | E408373-002 | SPRING | 2 | | |
| 31 | VWF1015-16PPA | FFC CABLE | 1 | | |
| 32 | GBSG3008CC | TAPPING SCREW | 4 | | |
| 33 | ETP1000-86JAJ | POWER TRANSFORMER | 1 | | |
| 34 | E65389-004 | SPECIAL SCREW | 2 | POWER TRANSFORMER | |
| 35 | E208470-005SM | REAR PANEL | 1 | | J |
| 35 | E208470-006SM | REAR PANEL | 1 | | C |
| 36 | E73273-006 | SPECIAL SCREW | 8 | | |
| 37 | E206967-007 | METAL COVER | 1 | | |
| 38 | E406308-001 | SPECIAL SCREW | 4 | | |
| 39 | E306805-161 | SPACER | 1 | CH MECHA TOP FRONT | |
| 40 | E306805-153 | SPACER | 2 | CHASSIS BASE | |
| 41 | E406507-001 | CAUTION LABEL | 1 | | C |
| - | E307570-001 | NUMBER LABEL | 1 | | J |

The Marks for Designated Areas

J the U.S.A.

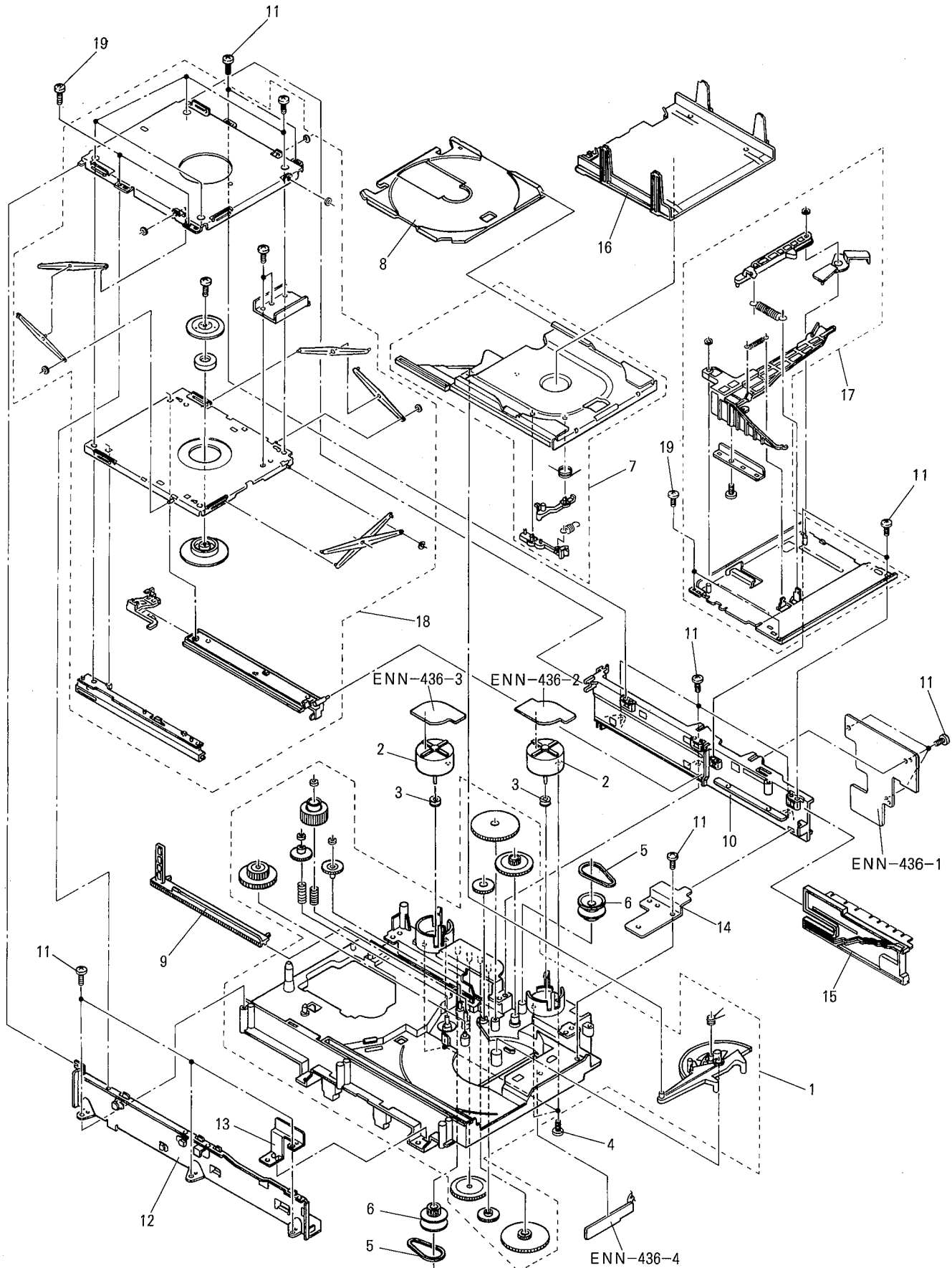
C Canada

No mark indicates all area.

CD Changer Mechanism Ass'y and Parts List

Symbol No.

| | | | |
|---|---|---|---|
| M | 2 | M | M |
|---|---|---|---|



■ PARTS LIST(Changer Mechanism)

Symbol No.

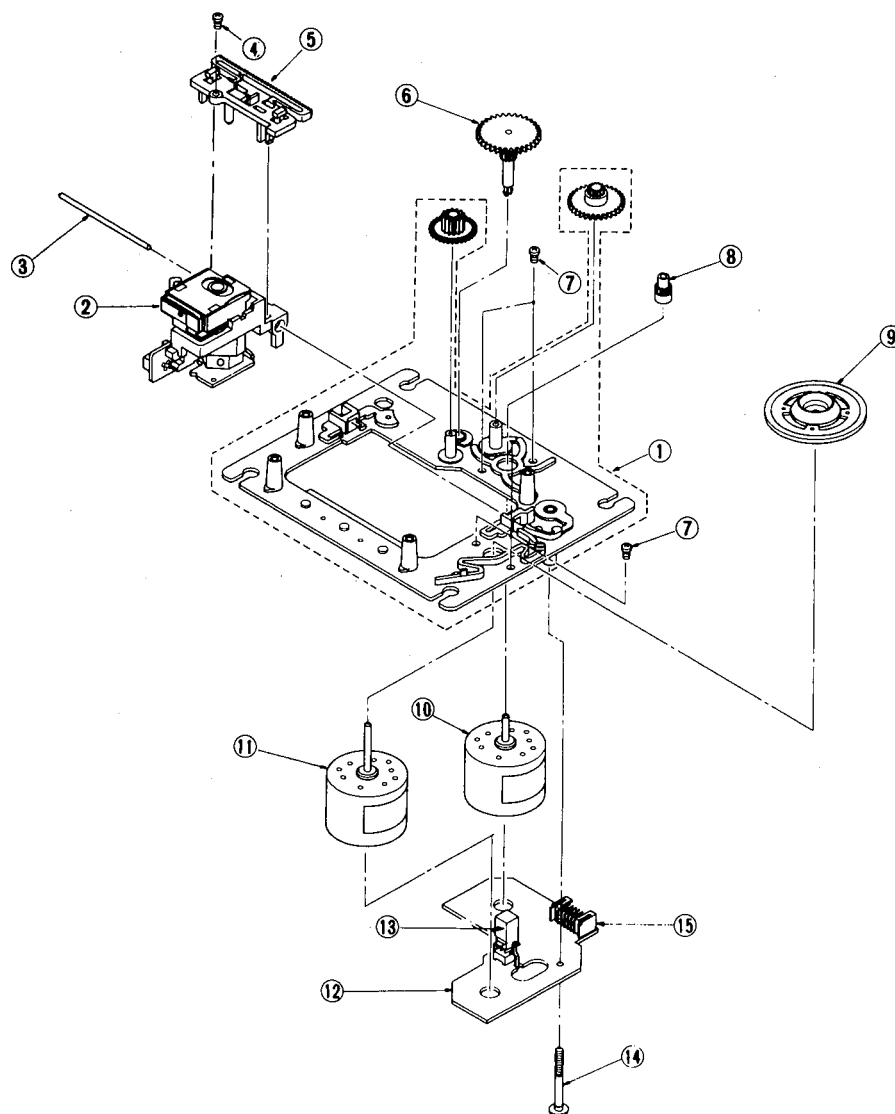
| | | | |
|---|---|---|---|
| M | 2 | M | M |
|---|---|---|---|

| △ | Item | Part Number | Part Name | Q'ty | Description | Area |
|---|------|----------------|--------------------|------|-------------|------|
| | 1 | E208436-001SM | MECHA BASE ASSY | 1 | | |
| | 2 | RF-500TB-14415 | DC MOTOR | 2 | | |
| | 3 | E75984-222SS | MOTOR PULLEY | 2 | | |
| | 4 | SPSP2604Z | SCREW | 4 | | |
| | 5 | E75950-002 | REEL BELT | 2 | | |
| | 6 | E75985-222SS | GEAR(1) | 2 | | |
| | 7 | E208456-001SM | TRAY BASE ASSY | 1 | | |
| | 8 | E26554-004 | CD TRAY | 1 | | |
| | 9 | E309148-002SM | HOOK GUIDE | 1 | | |
| | 10 | E102925-001SM | SIDE BRACKET (R) | 1 | | |
| | 11 | SBSF2608Z | TAPPING SCREW | 14 | | |
| | 12 | E208305-001SM | SIDE BRACKET (L) | 1 | | |
| | 13 | E408514-001SM | EARTH PLATE | 1 | | |
| | 14 | E408517-001SM | M. PLATE | 1 | | |
| | 15 | E208303-002SM | ELEVATOR CAM | 1 | | |
| | 16 | E208302-002SM | MAGAZINE GUIDE (B) | 1 | | |
| | 17 | E208458-002SM | SAFETY LEVER ASSY | 1 | | |
| | 18 | E102922-001SM | ELEVATOR ASSY | 1 | | |
| | 19 | SDST2606Z | SCREW | 4 | | |

CD Mechanism Ass'y and Parts List

Symbol No.

M 3 M M



■ PARTS LIST(CD Mechanism)

Symbol No.

M 3 M M

| Item | Part Number | Part Name | Q'ty | Description | Area |
|------|-----------------|------------------|------|-------------|------|
| 1 | EPB-002A | MECHA BASE | 1 | | |
| 2 | OPTIMA-6S | OPTICAL PICK-UP | 1 | | |
| 3 | E407782-001 | CD SHAFT | 1 | | |
| 4 | SDSF2006Z | SCREW | 1 | | |
| 5 | E307746-001 | CD RACK | 1 | | |
| 6 | E307745-221SS | CAM GEAR | 1 | | |
| 7 | SDSP2003N | SCREW | 4 | | |
| 8 | E406750-221SS | PINION GEAR | 1 | | |
| 9 | EPB309173A | TURNTABLE | 1 | | |
| 10 | MDN-4RA3ETA-1 | FEED MOTOR | 1 | | |
| 11 | E406783-001 | DC MOTOR | 1 | | |
| 12 | EMW10190-001(S) | PRINTED BOARD | 1 | | |
| 13 | EB51100-005 | LEAF SWITCH | 1 | | |
| 14 | E75832-001 | SPECIAL SCREW | 1 | | |
| 15 | EMV5109-006B | CONNECT TERMINAL | 1 | | |

Note : ENC-444 ☐ varies according to the areas employed. See note (1) when placing an order.



Note (1)

| PC Board Ass'y | Version | Designated Areas |
|------------------|---------|------------------|
| ENN-444 D | C | Canada |
| ENN-444 E | J | the U.S.A. |

TRANSISTORS

| Δ | ITEM | PART NUMBER | DESCRIPTION | AREA |
|---|------|--------------|-------------------------|------|
| | Q111 | 2SB1187(F,G) | SI. TRANSIST ROHM | |
| | Q112 | 2SD1302 | SI. TRANSIST MATSUSHITA | |
| | Q113 | 2SB1357(E,F) | SI. TRANSIST ROHM | |
| | Q131 | 2SA933S(RS) | SI. TRANSIST | |
| | Q132 | 2SD2144S(VW) | SI. TRANSIST ROHM | |
| | Q133 | 2SD2144S(VW) | SI. TRANSIST ROHM | |
| | Q134 | DTA114YS | DIGITAL TRA ROHM | |
| | Q201 | DTA114YS | DIGITAL TRA ROHM | |
| | Q202 | DTA114YS | DIGITAL TRA ROHM | |
| | Q203 | DTA114YS | DIGITAL TRA ROHM | |
| | Q204 | DTA114YS | DIGITAL TRA ROHM | |
| | Q205 | DTA114YS | DIGITAL TRA ROHM | |
| | Q371 | DTC144ES | DIGITAL TRA ROHM | |
| | Q372 | DTA114YS | DIGITAL TRA ROHM | |
| | Q401 | 2SA933S(RS) | SI. TRANSIST | |
| | Q402 | DTC114YS | DIGITAL TRA ROHM | |
| | Q411 | 2SD1302 | SI. TRANSIST MATSUSHITA | |
| | Q412 | 2SD1302 | SI. TRANSIST MATSUSHITA | |
| | Q501 | DTC114YS | DIGITAL TRA ROHM | |

I. C. S.

| Δ | ITEM | PART NUMBER | DESCRIPTION | AREA |
|---|-------|---------------|-------------------------|------|
| | IC201 | MN171202J6A | I.C(MICRO-C) MATSUSHITA | |
| | IC202 | AT24C04-10PC | I.C(EEP-ROM) MITSUBISHI | |
| | IC203 | SPS-420-1 | INFRARED DE SANYO | |
| | IC301 | NJM4580DD | I.C(MONO-AN DAINICHI | |
| | IC501 | MN171601J6B | I.C(MICRO-C) MATSUSHITA | |
| | IC502 | AT24C01A-10PC | I.C(EEP-ROM) MITSUBISHI | |
| | IC503 | PST9140T | I.C(MONO-AN MITSUMI | |

DIODES

| Δ | ITEM | PART NUMBER | DESCRIPTION | AREA |
|---|------|----------------|---------------------|------|
| | D101 | S1V820F | SI. DIODE SINDENGEN | |
| | D111 | MTZ5.6JA | ZENER DIODE ROHM | |
| | D131 | 1SR35-200A | SI. DIODE ROHM | |
| | D132 | 1SR35-200A | SI. DIODE ROHM | |
| | D133 | 1SR35-200A | SI. DIODE ROHM | |
| | D134 | MTZ36JC | ZENER DIODE ROHM | |
| | D201 | SLH-56VC50F130 | L.E.D. | |
| | D371 | 1SS133 | SI. DIODE ROHM | |
| | D372 | 1SS133 | SI. DIODE ROHM | |
| | D401 | 1SS133 | SI. DIODE ROHM | |
| | D402 | 1SS133 | SI. DIODE ROHM | |
| | D501 | 1SS133 | SI. DIODE ROHM | |

CAPACITORS

| Δ | ITEM | PART NUMBER | DESCRIPTION | AREA |
|---|------|--------------|------------------------|------|
| | C101 | QCHB1EZ-223 | 0.022MF 25V CER.CAPACI | |
| | C102 | QCHB1EZ-223 | 0.022MF 25V CER.CAPACI | |
| | C103 | QETB1EM-228 | 2200MF 25V E.CAPACITO | |
| | C104 | QETB1EM-108 | 1000MF 25V AL E.CAPAC | |
| | C108 | QCF21HP-223A | 0.022MF 50V CER.CAPACI | |
| | C111 | QETB1HM-225 | 2.2MF 50V AL E.CAPAC | |
| | C112 | QETB1CM-476 | 47MF 16V AL E.CAPAC | |
| | C113 | QETB1AM-476 | 47MF 10V E.CAPACITO | |
| | C131 | QETB1EM-476 | 47MF 25V AL E.CAPAC | |
| | C132 | QETB1HM-107 | 100MF 50V E.CAPACITO | |
| | C133 | QETB1HM-106 | 10MF 50V E.CAPACITO | |
| | C201 | QCHB1EZ-223 | 0.022MF 25V CER.CAPACI | |
| | C202 | QER51HM-106 | 10MF 50V AL E.CAPAC | |
| | C203 | QER51EM-106 | 10MF 25V E.CAPACITO | |
| | C204 | QCHB1EZ-223 | 0.022MF 25V CER.CAPACI | |
| | C205 | QETB1EM-106 | 10MF 25V AL E.CAPAC | |
| | C206 | QETB1HM-105 | 1MF 50V AL E.CAPAC | |
| | C207 | QETB1HM-105 | 1MF 50V AL E.CAPAC | |
| | C301 | QFLB1HJ-332 | 3300PF 50V MYLAR CAPA | |
| | C302 | QFLB1HJ-332 | 3300PF 50V MYLAR CAPA | |

CAPACITORS

| Δ | ITEM | PART NUMBER | DESCRIPTION | AREA |
|---|------|--------------|------------------------|------|
| | C303 | QFLB1HJ-183 | 0.018MF 50V MYLAR CAPA | |
| | C304 | QFLB1HJ-183 | 0.018MF 50V MYLAR CAPA | |
| | C305 | QETB1AM-226 | 22MF 10V ELECTRO | |
| | C306 | QETB1AM-226 | 22MF 10V ELECTRO | |
| | C307 | QFLB1HJ-332 | 3300PF 50V MYLAR CAPA | |
| | C308 | QFLB1HJ-332 | 3300PF 50V MYLAR CAPA | |
| | C309 | QFLB1HJ-332 | 3300PF 50V MYLAR CAPA | |
| | C310 | QFLB1HJ-332 | 3300PF 50V MYLAR CAPA | |
| | C321 | QETB1EM-476 | 47MF 25V AL E.CAPAC | |
| | C322 | QETB1EM-476 | 47MF 25V AL E.CAPAC | |
| | C371 | QCHB1HK-331Y | 330PF 50V CER.CAPACI | |
| | C399 | QFVB1HJ-104 | 0.1MF 50V THIN FILM | |
| | C401 | QETB1CM-227 | 220MF 16V AL E.CAPAC | |
| | C402 | QETB1CM-226 | 22MF 16V E.CAPACITO | |
| | C411 | QCHB1EZ-223 | 0.022MF 25V CER.CAPACI | |
| | C451 | QETB1EM-106 | 10MF 25V AL E.CAPAC | |
| | C452 | QETB1EM-106 | 10MF 25V AL E.CAPAC | |
| | C453 | QETB1EM-227 | 220MF 25V AL E.CAPAC | |
| | C454 | QETB1EM-227 | 220MF 25V AL E.CAPAC | |
| | C501 | QCZ0202-155 | 1.5MF 25V CER.RESIST | |
| | C503 | QETB1EM-106 | 10MF 25V AL E.CAPAC | |
| | C511 | QETB1EM-106 | 10MF 25V AL E.CAPAC | |
| | C512 | QCHB1EZ-223 | 0.022MF 25V CER.CAPACI | |

RESISTORS

| Δ | ITEM | PART NUMBER | DESCRIPTION | AREA |
|---|------|----------------|----------------------|------|
| | R101 | PTH61G30BD2R2N | FUSIBLE RE | C |
| | R102 | PTH61G30BD2R2N | FUSIBLE RE | C |
| | R111 | QRD161J-222 | 2.2K 1/6W CARBON RES | |
| | R112 | QRD161J-221 | 220 1/6W CARBON RES | |
| | R113 | QRD161J-221 | 220 1/6W CARBON RES | |
| | R114 | QRD161J-202 | 2K 1/6W CARBON RES | |
| | R115 | QRD161J-102 | 1K 1/6W CARBON RES | |
| | R116 | QRD161J-821 | 820 1/6W CARBON RES | |
| | R117 | QRD167J-1R5 | 1.5 1/6W CARBON RES | |
| | R118 | QRD167J-1R5 | 1.5 1/6W CARBON RES | |
| | R119 | QRD161J-202 | 2K 1/6W CARBON RES | |
| | R131 | QRZ0077-560 | 56 1/4W FUSIBLE RE | C |
| | R132 | QRD161J-362 | 3.6K 1/6W CARBON RES | |
| | R133 | QRD161J-362 | 3.6K 1/6W CARBON RES | |
| | R134 | QRD167J-121 | 120 1/6W CARBON RES | |
| | R135 | QRD161J-222 | 2.2K 1/6W CARBON RES | |
| | R136 | QRD161J-222 | 2.2K 1/6W CARBON RES | |
| | R137 | QRD161J-103 | 10K 1/6W CARBON RES | |
| | R138 | QRD161J-103 | 10K 1/6W CARBON RES | |
| | R139 | QRD161J-103 | 10K 1/6W CARBON RES | |
| | R198 | QRD161J-2R2 | 2.2 1/6W CARBON RES | J |
| | R199 | QRD161J-2R2 | 2.2 1/6W CARBON RES | J |
| | R201 | QRD161J-124 | 120K 1/6W CARBON RES | |
| | R202 | QRD161J-124 | 120K 1/6W CARBON RES | |
| | R203 | QRD161J-124 | 120K 1/6W CARBON RES | |
| | R204 | QRD161J-124 | 120K 1/6W CARBON RES | |
| | R205 | QRD161J-124 | 120K 1/6W CARBON RES | |
| | R206 | QRD161J-103 | 10K 1/6W CARBON RES | |
| | R207 | QRD161J-103 | 10K 1/6W CARBON RES | |
| | R208 | QRD161J-103 | 10K 1/6W CARBON RES | |
| | R209 | QRD161J-103 | 10K 1/6W CARBON RES | |
| | R210 | QRD161J-473 | 47K 1/6W CARBON RES | |
| | R211 | QRD161J-473 | 47K 1/6W CARBON RES | |
| | R212 | QRD161J-473 | 47K 1/6W CARBON RES | |
| | R213 | QRD161J-473 | 47K 1/6W CARBON RES | |
| | R214 | QRD161J-181 | 180 1/6W CARBON RES | |
| | R216 | QRD161J-103 | 10K 1/6W CARBON RES | |
| | R301 | QRD161J-621 | 620 1/6W CARBON RES | |
| | R302 | QRD161J-621 | 620 1/6W CARBON RES | |
| | R303 | QRD161J-561 | 560 1/6W CARBON RES | |
| | R304 | QRD161J-561 | 560 1/6W CARBON RES | |
| | R305 | QRD161J-183 | 18K 1/6W CARBON RES | |
| | R306 | QRD161J-183 | 18K 1/6W CARBON RES | |
| | R307 | QRD161J-273 | 27K 1/6W CARBON RES | |
| | R308 | QRD161J-273 | 27K 1/6W CARBON RES | |
| | R309 | QRD161J-561 | 560 1/6W CARBON RES | |
| | R310 | QRD161J-561 | 560 1/6W CARBON RES | |
| | R311 | QRD161J-101 | 100 1/6W CARBON RES | |
| | R312 | QRD161J-101 | 100 1/6W CARBON RES | |
| | R313 | QRD161J-821 | 820 1/6W CARBON RES | |
| | R314 | QRD161J-821 | 820 1/6W CARBON RES | |
| | R321 | QRD161J-221 | 220 1/6W CARBON RES | |
| | R322 | QRD161J-221 | 220 1/6W CARBON RES | |
| | R371 | QRD161J-472 | 4.7K 1/6W CARBON RES | |
| | R372 | QRD161J-221 | 220 1/6W CARBON RES | |
| | R373 | QRD161J-221 | 220 1/6W CARBON RES | |
| | R401 | QRD161J-331 | 330 1/6W CARBON RES | |
| | R402 | QRD167J-822 | 8.2K 1/6W CARBON RES | |
| | R403 | QRD161J-683 | 68K 1/6W CARBON RES | |
| | R404 | QRD161J-221 | 220 1/6W CARBON RES | |
| | R411 | QRD161J-103 | 10K 1/6W CARBON RES | |
| | R412 | QRD161J-103 | 10K 1/6W CARBON RES | |
| | R413 | QRD167J-154 | 150K 1/6W CARBON RES | |
| | R414 | QRD161J-684 | 680K 1/6W CARBON RES | |
| | R501 | QRD161J-103 | 10K 1/6W CARBON RES | |

RESISTORS

| ITEM | PART NUMBER | DESCRIPTION | AREA |
|-------|-------------|----------------------|------|
| R503 | QRD161J-103 | 10K 1/6W CARBON RES | |
| R504 | QRD161J-103 | 10K 1/6W CARBON RES | |
| R510 | QRD161J-472 | 4.7K 1/6W CARBON RES | |
| R511 | QRD161J-102 | 1K 1/6W CARBON RES | |
| R521 | QRD161J-473 | 47K 1/6W CARBON RES | |
| R522 | QRD161J-473 | 47K 1/6W CARBON RES | |
| R523 | QRD161J-473 | 47K 1/6W CARBON RES | |
| R524 | QRD161J-473 | 47K 1/6W CARBON RES | |
| R999 | QRD161J-102 | 1K 1/6W CARBON RES | |
| RA501 | QRB089J-103 | 10K 1/10W NETWORK RE | |

OTHERS

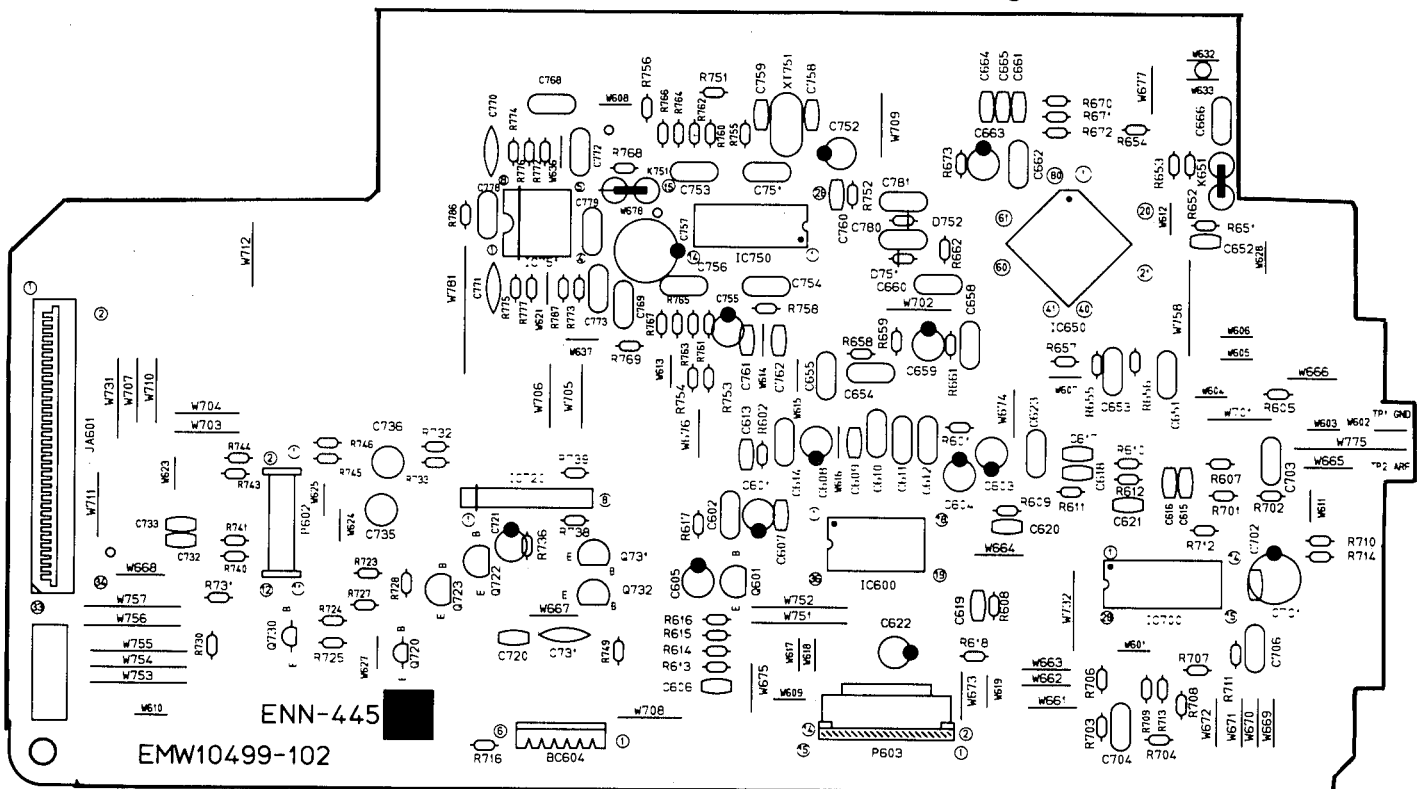
| ITEM | PART NUMBER | DESCRIPTION | AREA |
|-------|----------------|-------------------------|------|
| S220 | QSQ1001-E01ZJ7 | PUSH SWITCH STOP/CANCEL | |
| S221 | QSQ1001-E01ZJ7 | PUSH SWITCH | |
| S222 | QSQ1001-E01ZJ7 | PUSH SWITCH | |
| S223 | QSQ1001-E01ZJ7 | PUSH SWITCH | |
| S224 | QSQ1001-E01ZJ7 | PUSH SWITCH | |
| X201 | ECX0060-000EM | CERAMIC RES | |
| X501 | ECX0060-000EM | CERAMIC RES | |
| CN202 | ENS26B-A450J | SOCKET WIRE | |
| CN303 | EMV5109-011A | MALE CONNEX | |
| CN304 | EMV7123-034 | CONNECT TER | |
| CP101 | ICP-N10 | I.C.PROTECT | |
| EP501 | EMZ4002-001Z | EARTH PLATE | |
| FH201 | E75819-001 | SUPPORT HOL | |
| FH202 | E75820-001 | SUPPORT HOL | |
| FL201 | ELU0001-204 | FLUORESCENT | |
| FS201 | E3400-439 | FELT SPACER | |
| FS202 | E3400-439 | FELT SPACER | |
| FW201 | EWR340-25LS | FLAT WIRE A | |
| FW203 | EWR390-50SS | FLAT WIRE A | |
| FW204 | EWR360-55SS | FLAT WIRE A | |
| FW205 | EWR390-16LS | FLAT WIRE A | |
| FW501 | EWR380-40LS | FLAT WIRE A | |
| JT101 | EMV7145-004Z | SOCKET ASSY | |
| JT102 | EMV7145-004Z | SOCKET ASSY | |
| JT103 | EMV7145-004Z | SOCKET ASSY | |
| JT301 | EMV7122-103 | CONNECT TER | |
| JT302 | EMV7122-005 | MALE CONNEX | |
| JT303 | EMV7145-004Z | SOCKET ASSY | |

OTHERS

| ITEM | PART NUMBER | DESCRIPTION | AREA |
|------|----------------|--------------------------|------|
| | EMW10530-002 | PRINTED BOA | |
| | E70306-001 | HEAT SINK | |
| | SBSE3008Z | SCREW | |
| J101 | EMN00TV-217A | PIN JACK | |
| J102 | QMS3501-020 | PIN JACK | |
| J901 | QMC8001-E03H | AC INLET | |
| S201 | QSQ1001-E01ZJ7 | PUSH SWITCH POWER | |
| S202 | QSQ1001-E01ZJ7 | PUSH SWITCH P | |
| S203 | QSQ1001-E01ZJ7 | PUSH SWITCH 1 | |
| S204 | QSQ1001-E01ZJ7 | PUSH SWITCH 2 | |
| S205 | QSQ1001-E01ZJ7 | PUSH SWITCH 3 | |
| S206 | QSQ1001-E01ZJ7 | PUSH SWITCH 4 | |
| S207 | QSQ1001-E01ZJ7 | PUSH SWITCH 5 | |
| S208 | QSQ1001-E01ZJ7 | PUSH SWITCH 6 | |
| S209 | QSQ1001-E01ZJ7 | PUSH SWITCH TITLE INPUT | |
| S210 | QSQ1001-E01ZJ7 | PUSH SWITCH DISC SEARCH | |
| S211 | QSQ1001-E01ZJ7 | PUSH SWITCH TITLE SEARCH | |
| S212 | QSQ1001-E01ZJ7 | PUSH SWITCH MEMORY/ENTER | |
| S213 | QSQ1001-E01ZJ7 | PUSH SWITCH ^ | |
| S214 | QSQ1001-E01ZJ7 | PUSH SWITCH V | |
| S215 | QSQ1001-E01ZJ7 | PUSH SWITCH PLAY MODE | |
| S216 | QSQ1001-E01ZJ7 | PUSH SWITCH REPAT | |
| S217 | QSQ1001-E01ZJ7 | PUSH SWITCH DISPLAY/CALL | |
| S218 | QSQ1001-E01ZJ7 | PUSH SWITCH EJECT | |
| S219 | QSQ1001-E01ZJ7 | PUSH SWITCH OPEN/CLOSE | |

■ ENN-445 □ CD PC Board Ass'y

Note : ENN445 □ varies according to the areas employed. See note (2) when placing an order.



Note (2)

| PC Board Ass'y | Version | Designated Areas |
|------------------|---------|------------------|
| ENN-445 N | C | Canada |
| ENN-445 P | J | the U.S.A. |

TRANSISTORS

| ITEM | PART NUMBER | DESCRIPTION | AREA |
|------|--------------|---------------------|------|
| Q601 | 2SA950(Q,Y) | SI-TRANSIST TOSHIBA | |
| Q722 | 2SC2060(Q,R) | SI-TRANSIST ROHM | |
| Q723 | 2SA934(Q,R) | SI-TRANSIST ROHM | |
| Q730 | DT144ES | DIGITAL TRA ROHM | |
| Q731 | 2SC2060(Q,R) | SI-TRANSIST ROHM | |
| Q732 | 2SA934(Q,R) | SI-TRANSIST ROHM | |

I. C. S.

| ITEM | PART NUMBER | DESCRIPTION | AREA |
|-------|-------------|------------------------|------|
| IC600 | AN8806SB | I.C(M) MATSUSHITA | |
| IC650 | MN662720RB | I.C(DIGI-MO MATSUSHITA | |
| IC700 | BA6398FP | I.C(MONO-AN ROHM | |
| IC720 | VC4580L | I.C(MONO-AN DAINICHI | |
| IC750 | MN35503 | I.C(DIGI-MO MATSUSHITA | |
| IC751 | NJM4580DD | I.C(MONO-AN DAINICHI | |

DIODES

| ITEM | PART NUMBER | DESCRIPTION | AREA |
|------|-------------|-------------|------|
| D751 | 1SS119 | SI-DIODE | |
| D752 | 1SS119 | SI-DIODE | |

CAPACITORS

| ITEM | PART NUMBER | DESCRIPTION | AREA |
|------|---------------|------------------------|------|
| C601 | QETB1AM-107 | 100MF 10V AL E.CAPAC | |
| C602 | QCZ0202-155 | 1.5MF 25V CER.RESIST | |
| C604 | QETB1AM-107 | 100MF 10V AL E.CAPAC | |
| C605 | QERS1VM-106 | 10MF 35V AL E.CAPAC | |
| C606 | QCHB1EZ-223 | 0.022MF 25V CER.CAPACI | |
| C607 | QCSB1HJ-680 | 68PF 50V CER.CAPACI | |
| C608 | QETB1HM-105 | 1MF 50V AL E.CAPAC | |
| C609 | QCB81HK-101Y | 100PF 50V CER.CAPACI | |
| C610 | QFLB1HJ-273 | 0.027MF 50V MYLAR CAPA | |
| C611 | QFLB1HJ-472 | 4700PF 50V MYLAR CAPA | |
| C612 | QFLB1HJ-332 | 3300PF 50V MYLAR CAPA | |
| C613 | QCT30CH-3R3Y | 3.3PF 50V CER.CAPACI | |
| C614 | QFV81HJ-104 | 0.1MF 50V THIN FILM | |
| C615 | QCHB1EZ-223 | 0.022MF 25V CER.CAPACI | |
| C616 | QCHB1EZ-223 | 0.022MF 25V CER.CAPACI | |
| C617 | QCHB1EZ-223 | 0.022MF 25V CER.CAPACI | |
| C618 | QCXB1CM-222Y | 2200PF 16V CER.CAPACI | |
| C619 | QCB81HK-271Y | 270PF 50V CER.CAPACI | |
| C620 | QCSB1HJ-470 | 47PF 50V CER.CAPACI | |
| C621 | QCB81HK-821Y | 820PF 50V CER.CAPACI | |
| C622 | QETB1AM-476 | 47MF 10V E.CAPACITO | |
| C623 | QFV81HJ-104 | 0.1MF 50V THIN FILM | |
| C651 | QFLB1HJ-471 | 470PF 50V MYLAR CAPA | |
| C652 | QCHB1EZ-223 | 0.022MF 25V CER.CAPACI | |
| C653 | QFLB1HJ-223 | 0.022MF 50V MYLAR CAPA | |
| C654 | QFLB1HJ-223 | 0.022MF 50V MYLAR CAPA | |
| C655 | QFV81HJ-334 | 0.33MF 50V TF.CAPACIT | |
| C658 | QFV81HJ-104 | 0.1MF 50V THIN FILM | |
| C659 | QETB1AM-107 | 100MF 10V AL E.CAPAC | |
| C660 | QFLB1HJ-223 | 0.022MF 50V MYLAR CAPA | |
| C662 | QFV81HJ-104 | 0.1MF 50V THIN FILM | |
| C663 | QETB1AM-107 | 100MF 10V AL E.CAPAC | |
| C701 | QETB1CM-227 | 220MF 16V AL E.CAPAC | |
| C702 | QCHB1EZ-223 | 0.022MF 25V CER.CAPACI | |
| C703 | QFLB1HJ-273 | 0.027MF 50V MYLAR CAPA | |
| C704 | QFLB1HJ-183 | 0.018MF 50V MYLAR CAPA | |
| C706 | QFLB1HJ-273 | 0.027MF 50V MYLAR CAPA | |
| C720 | QCHB1EZ-223 | 0.022MF 25V CER.CAPACI | |
| C721 | QETB1CM-476 | 47MF 16V AL E.CAPAC | |
| C722 | QCS21HP-101A | 100PF 50V CER.CAPACI | |
| C731 | QCF21HP-223A | 0.022MF 50V CER.CAPACI | |
| C732 | QCHB1EZ-223 | 0.022MF 25V CER.CAPACI | |
| C733 | QETB1HM-105 | 1MF 50V AL E.CAPAC | |
| C735 | QETC1HM-225ZN | 2.2MF 50V AL E.CAPAC | |
| C736 | QETC1HM-225ZN | 2.2MF 50V AL E.CAPAC | |

CAPACITORS

| ITEM | PART NUMBER | DESCRIPTION | AREA |
|------|--------------|------------------------|------|
| C751 | QCZ0202-155 | 1.5MF 25V CER.RESIST | |
| C752 | QETB1AM-476 | 47MF 10V E.CAPACITO | |
| C753 | QCZ0202-155 | 1.5MF 25V CER.RESIST | |
| C754 | QCZ0202-155 | 1.5MF 25V CER.RESIST | |
| C755 | QETB0JM-227 | 220MF 6.3V E.CAPACITO | |
| C756 | QCZ0202-155 | 1.5MF 25V CER.RESIST | |
| C757 | QETB0JM-108E | 1000MF 6.3V E.CAPACITO | |
| C758 | QCT30CH-180Y | 18PF 50V CER.CAPACI | |
| C759 | QCT30CH-180Y | 18PF 50V CER.CAPACI | |
| C768 | QFLB1HJ-222 | 2200PF 50V MYLAR CAPA | |
| C769 | QFLB1HJ-222 | 2200PF 50V MYLAR CAPA | |
| C770 | QCS31HJ-331Z | 330PF 50V CER.CAPACI | |
| C771 | QCS31HJ-331Z | 330PF 50V CER.CAPACI | |
| C772 | QFLB1HJ-333 | 0.033MF 50V MYLAR CAPA | |
| C773 | QFLB1HJ-333 | 0.033MF 50V MYLAR CAPA | |
| C778 | QFV81HJ-104 | 0.1MF 50V THIN FILM | |
| C779 | QFV81HJ-104 | 0.1MF 50V THIN FILM | |
| C780 | QCZ0202-155 | 1.5MF 25V CER.RESIST | |

RESISTORS

| ITEM | PART NUMBER | DESCRIPTION | AREA |
|------|--------------|----------------------|------|
| R602 | QRD161J-123 | 12K 1/6W CARBON RES | |
| R605 | QRD167J-134 | 130K 1/6W CARBON RES | |
| R607 | QRD161J-913 | 91K 1/6W CARBON RES | |
| R608 | QRD161J-273 | 27K 1/6W CARBON RES | |
| R609 | QRD161J-114 | 110K 1/6W CARBON RES | |
| R610 | QRD167J-154 | 150K 1/6W CARBON RES | |
| R611 | QRD161J-394 | 390K 1/6W CARBON RES | |
| R612 | QRD161J-103 | 10K 1/6W CARBON RES | |
| R613 | QRD167J-121 | 120 1/6W CARBON RES | |
| R614 | QRD161J-470 | 47 1/6W CARBON RES | |
| R615 | QRD161J-470 | 47 1/6W CARBON RES | |
| R616 | QRD161J-470 | 47 1/6W CARBON RES | |
| R617 | QRD161J-2R2 | 2.2 1/6W CARBON RES | |
| R618 | QRD161J-910Y | 91 1/6W CARBON RES | |
| R651 | QRD161J-102 | 1K 1/6W CARBON RES | |
| R652 | QRD161J-102 | 1K 1/6W CARBON RES | |
| R653 | QRD161J-102 | 1K 1/6W CARBON RES | |
| R654 | QRD161J-471 | 470 1/6W CARBON RES | |
| R655 | QRD167J-155 | 1.5M 1/6W CARBON RES | |
| R656 | QRD161J-104 | 100K 1/6W CARBON RES | |
| R657 | QRD161J-104 | 100K 1/6W CARBON RES | |
| R658 | QRD161J-681 | 680 1/6W CARBON RES | |
| R659 | QRD161J-124 | 120K 1/6W CARBON RES | |
| R661 | QRD161J-2R2 | 2.2 1/6W CARBON RES | |
| R662 | QRD161J-2R2 | 2.2 1/6W CARBON RES | |
| R670 | QRD161J-102 | 1K 1/6W CARBON RES | |
| R671 | QRD161J-102 | 1K 1/6W CARBON RES | |
| R672 | QRD161J-102 | 1K 1/6W CARBON RES | |
| R673 | QRD161J-472 | 4.7K 1/6W CARBON RES | |
| R701 | QRD161J-821 | 820 1/6W CARBON RES | |
| R702 | QRD167J-562 | 5.6K 1/6W CARBON RES | |
| R703 | QRD161J-112 | 1.1K 1/6W CARBON RES | |
| R704 | QRD167J-113 | 11K 1/6W CARBON RES | |
| R706 | QRD161J-124 | 120K 1/6W CARBON RES | |
| R707 | QRD167J-332 | 3.3K 1/6W CARBON RES | |
| R708 | QRD161J-752 | 7.5K 1/6W CARBON RES | |
| R709 | QRD167J-223 | 22K 1/6W CARBON RES | |
| R710 | QRD161J-392 | 3.9K 1/6W CARBON RES | |
| R711 | QRD167J-153 | 15K 1/6W CARBON RES | |
| R712 | QRD161J-752 | 7.5K 1/6W CARBON RES | |
| R713 | QRD167J-751 | 750 1/6W CARBON RES | |
| R714 | QRD161J-363 | 36K 1/6W CARBON RES | |
| R716 | QRD167J-151 | 150 1/6W CARBON RES | |
| R723 | QRD167J-223 | 22K 1/6W CARBON RES | |
| R724 | QRD161J-303Y | 30K 1/6W CARBON RES | |
| R725 | QRD161J-183 | 18K 1/6W CARBON RES | |
| R726 | QRD167J-272 | 2.7K 1/6W CARBON RES | |
| R727 | QRD161J-183 | 18K 1/6W CARBON RES | |
| R728 | QRD161J-221 | 220 1/6W CARBON RES | |
| R730 | QRD161J-363 | 36K 1/6W CARBON RES | |
| R731 | QRD167J-153 | 15K 1/6W CARBON RES | |
| R732 | QRD167J-153 | 15K 1/6W CARBON RES | |
| R733 | QRD161J-303Y | 30K 1/6W CARBON RES | |
| R736 | QRD161J-363 | 36K 1/6W CARBON RES | |
| R738 | QRD161J-363 | 36K 1/6W CARBON RES | |
| R739 | QRD167J-751 | 750 1/6W CARBON RES | |
| R740 | QRD161J-102 | 1K 1/6W CARBON RES | |
| R741 | QRD161J-221 | 220 1/6W CARBON RES | |
| R743 | QRD161J-102 | 1K 1/6W CARBON RES | |
| R744 | QRD161J-102 | 1K 1/6W CARBON RES | |
| R745 | QRD161J-102 | 1K 1/6W CARBON RES | |
| R746 | QRD161J-102 | 1K 1/6W CARBON RES | |
| R749 | QRD161J-2R2 | 2.2 1/6W CARBON RES | |
| R751 | QRD161J-101 | 100 1/6W CARBON RES | |
| R752 | QRD161J-102 | 1K 1/6W CARBON RES | |
| R753 | QRD167J-560 | 56 1/6W CARBON RES | |
| R755 | QRD161J-271 | 270 1/6W CARBON RES | |
| R756 | QRD161J-101 | 100 1/6W CARBON RES | |
| R758 | QRD161J-271 | 270 1/6W CARBON RES | |
| R760 | QRV144F-1602 | 16K 1/4W CONST.META | |
| R761 | QRV144F-1602 | 16K 1/4W CONST.META | |
| R762 | QRD161J-243 | 24K 1/6W CARBON RES | |
| R763 | QRD161J-243 | 24K 1/6W CARBON RES | |
| R764 | QRV144F-1602 | 16K 1/4W CONST.META | |
| R765 | QRV144F-1602 | 16K 1/4W CONST.META | |

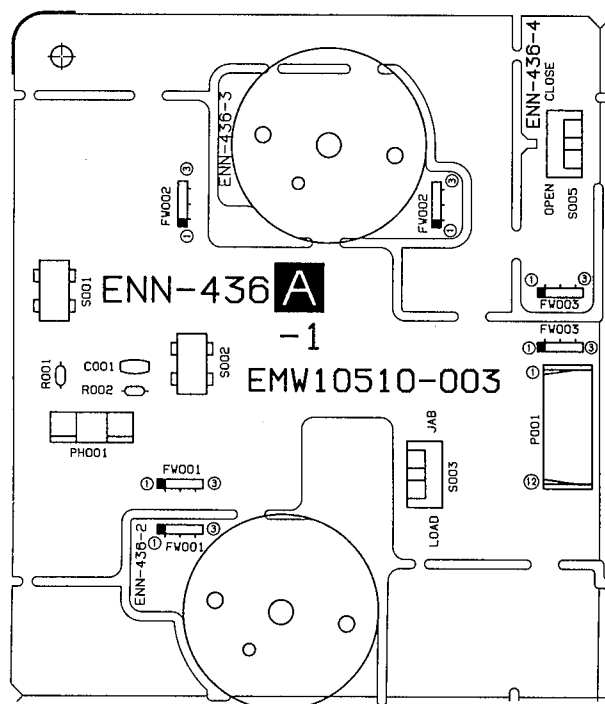
RESISTORS

| Δ | ITEM | PART NUMBER | DESCRIPTION | AREA |
|---|------|-------------|----------------------|------|
| | R766 | QRD161J-243 | 24K 1/6W CARBON RES | |
| | R767 | QRD161J-243 | 24K 1/6W CARBON RES | |
| | R768 | QRD167J-682 | 6.8K 1/6W CARBON RES | |
| | R769 | QRD167J-682 | 6.8K 1/6W CARBON RES | |
| | R772 | QRD161J-362 | 3.6K 1/6W CARBON RES | |
| | R773 | QRD161J-362 | 3.6K 1/6W CARBON RES | |
| | R774 | QRD161J-183 | 18K 1/6W CARBON RES | |
| | R775 | QRD161J-183 | 18K 1/6W CARBON RES | |
| | R776 | QRD161J-621 | 620 1/6W CARBON RES | |
| | R777 | QRD161J-621 | 620 1/6W CARBON RES | |
| | R786 | QRD161J-271 | 270 1/6W CARBON RES | |
| | R787 | QRD161J-2R2 | 2.2 1/6W CARBON RES | |

OTHERS

| Δ | ITEM | PART NUMBER | DESCRIPTION | AREA |
|---|-------|---------------|-------------|------|
| | P602 | EMW10499-102 | PRINTED BOA | |
| | P603 | VMC0314-S12 | CONNECT TER | |
| | BC604 | EMV7144-015R | CONNECT TER | |
| | FS720 | EWS266-A408J | FLAT WIRE A | |
| | JA601 | E3400-431 | FELT SPACER | |
| | XT751 | EMV7123-034 | CONNECT TER | |
| | | ECX0169-344KL | CRYSTAL | |

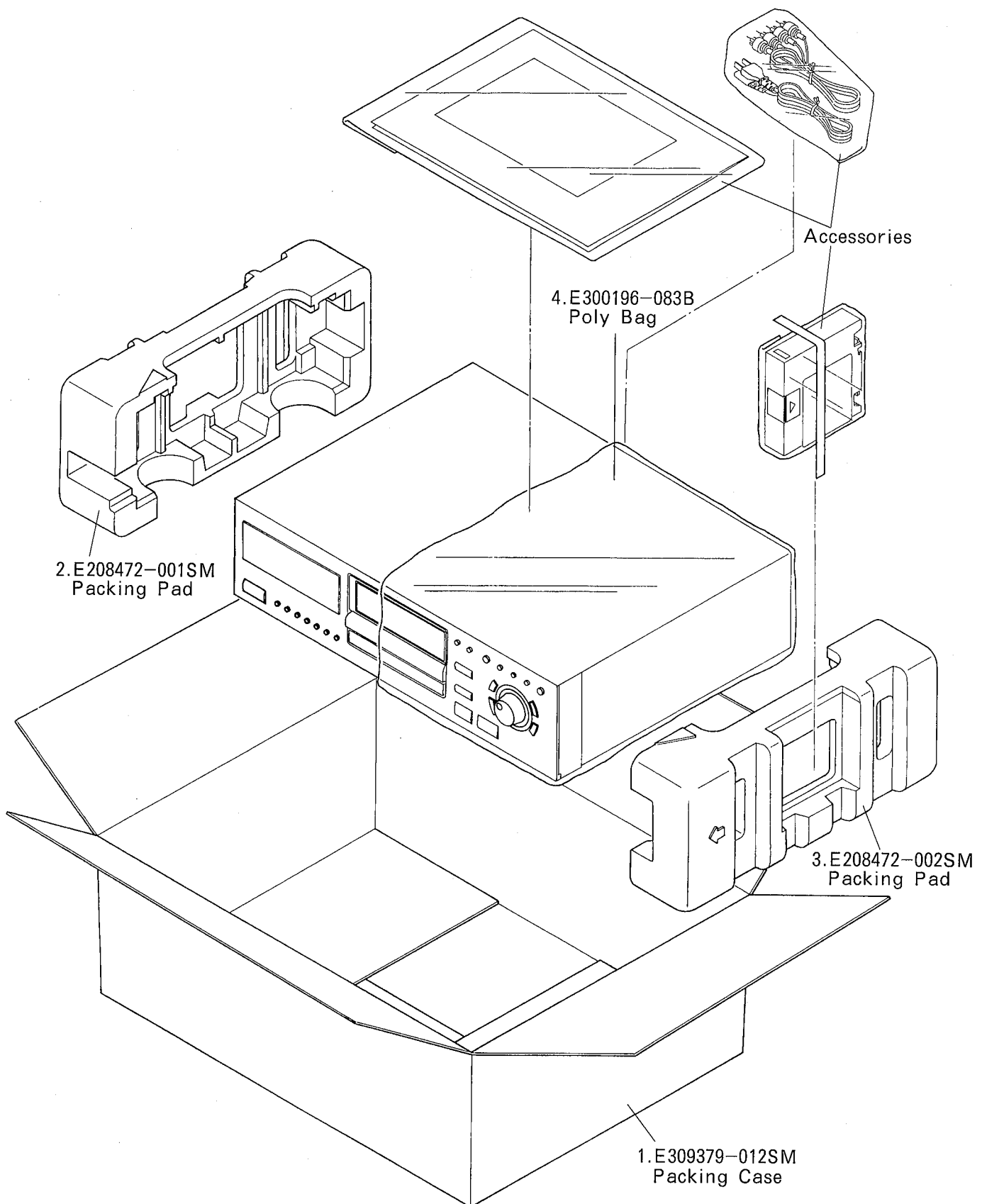
■ ENN-436 A CD Changer PC Board Ass'y



Packing Materials and Part Numbers

Symbol No.

| | | | |
|---|---|---|---|
| M | 5 | M | M |
|---|---|---|---|



XL-M5SD
XL-M417TN
XL-M317TN



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